



REPORT OF THE

Hydro-Electric Power  
Commission

OF ONTARIO

1934

WILLS MACLACHLAN

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Wills MacLachlan




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POWER FOR THE GOLD MINES OF NORTHERN ONTARIO  
Transportation Difficulties Overcome—Twenty-six Miles by Tractor  
Transformer of 1,500-kv-a. capacity en route to Matachewan

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*Ontario. Hydro-Electric Power*  
*Commission*  
(TWENTY-SEVENTH) ANNUAL REPORT

OF THE

# HYDRO-ELECTRIC POWER COMMISSION

OF THE

PROVINCE OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1934

PRINTED BY ORDER OF  
THE LEGISLATIVE ASSEMBLY OF ONTARIO



TORONTO

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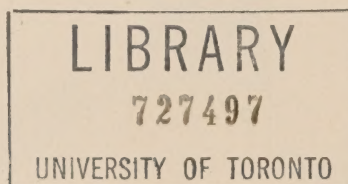
THE  
HYDRO-ELECTRIC POWER COMMISSION  
OF ONTARIO

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T. STEWART LYON.....	<i>Chairman</i>
HON. ARTHUR W. ROEBUCK, K.C., M.L.A.....	<i>Commissioner</i>
HON. THOMAS B. McQUESTEN, K.C., M.L.A.....	<i>Commissioner</i>
W. W. POPE.....	<i>Secretary</i>
A. MURRAY McCRIMMON.....	<i>Controller</i>

*Chief Engineers*

T. H. HOGG, B.A. Sc., C.E., D.ENG.....	<i>Hydraulic and Operation</i>
R. T. JEFFERY, B.Sc.....	<i>Municipal Relations and Rural Power</i>



*To His Honour*

THE HONOURABLE HERBERT A. BRUCE, R.A.M.C., M.D., F.R.C.S.,  
*Lieutenant-Governor of Ontario*

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour the Twenty-seventh Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ending October 31, 1934.

This Report contains a record of the Commission's activities in construction and administration and embodies also its financial statements for the year ending October 31, 1934. It also presents, for the calendar year 1934, financial statements and statistical data relating to the municipal electric utilities operating in conjunction with the various systems of the Commission and supplying electrical service to the citizens of the Province.

The Report includes also details of the operation of the Northern Ontario properties which are owned by the Province and operated by this Commission, under an agreement by which any deficits incurred in operation are provided from the provincial treasury, and any surplus funds remaining from operations are transferred to the treasury.

The financial statements, statistical data and general information given, are so presented as to provide a comprehensive survey of the Commission's operations. For the information of Your Honour and the Members of the Legislature comparative statements have been compiled showing, for the several systems of the Commission, for a number of years past, the total cost of power supplied to the co-operating municipalities and to other consumers of each system, including the total cost of power purchased under contract for each system; the revenues of each system; and the additions made to, or the withdrawals from, the various reserve funds of each system.

#### **Seven Years Power Load**

The following tables show the distribution of primary and secondary power to all systems, the cost of operation including the amounts paid for purchased power, and the rapid increase of the use of electric energy in the gold fields of Northern Ontario during the past seven years. The primary load in the Niagara system at the end of 1934 was still materially less than at the end of 1929, the period of greatest consumption, as the figures for the month of December clearly show, but the expansion in the secondary power load in all systems brought up the total primary and secondary power supplied in December, 1934, to the highest figures yet recorded.



DISTRIBUTION OF PRIMARY POWER TO SYSTEMS  
20-MINUTE PEAK HORSEPOWER—SYSTEM COINCIDENT PRIMARY PEAKS

System	1928	1929	1930	1931	1932	1933	1934
October							
Niagara system, 25-cycle...	811,973	931,261	879,518	805,630	839,946	848,793	856,434
Dominion Power & Trans.			58,579	48,659	43,968	45,710	50,670
Eastern Ontario system.....	77,654	82,299	87,990	85,857	80,544	86,890	91,716
Georgian Bay system.....	20,082	22,118	23,355	26,356	25,666	23,887	24,488
Thunder Bay system.....	48,910	77,117	73,968	51,600	58,140	66,187	60,188
Manitoulin rural power dist.						80	88
Northern Ont. properties:							
Sudbury district.....			12,935	10,724	7,574	12,466	12,466
Abitibi district.....				17,800	11,340	15,777	31,501
Nipissing district.....	3,170	3,599	3,745	3,689	3,751	3,539	3,840
Patricia district.....			1,582	1,912	2,048	2,627	2,828
Espanola district.....							509
Total.....	961,789	1,116,394	1,141,672	1,052,227	1,072,977	1,105,956	1,134,728
December							
Niagara system, 25-cycle...	891,904	969,123	902,392	828,200	838,338	879,893	901,877
Dominion Power & Trans.			61,528	56,166	48,525	51,743	54,021
Eastern Ontario system.....	81,548	90,255	93,560	91,253	86,716	91,924	96,783
Georgian Bay system.....	21,595	22,961	25,591	27,531	26,424	25,496	26,816
Thunder Bay system.....	66,300	64,588	61,300	50,300	55,570	54,704	69,658
Manitoulin rural power dist.						84	108
Northern Ont. properties:							
Sudbury district.....			10,724	11,059	9,853	12,802	13,003
Abitibi district.....				13,000	13,000	14,745	32,842
Nipissing district.....	3,248	3,492	3,654	4,088	3,799	3,901	4,008
Patricia district.....			1,521	1,926	2,058	2,735	2,855
Espanola district.....							535
Total.....	1,064,595	1,150,419	1,160,270	1,083,523	1,084,283	1,138,027	1,202,506

NOTE.—The above figures represent primary loads, and are strictly comparable from year to year. The figures which have appeared in this table in former years have represented total loads on the basis in use at the time; for example, on page viii of the 1930 report, the October 1930 load is shown as 1,000,670 horsepower. In addition to the primary load of 879,518 it contained at-will export 113,592 horsepower and a transfer to the Georgian Bay system amounting to 7,560 horsepower. While the latter is a primary obligation upon the Niagara system so far as generating resources go, it does not represent Niagara system load and as this load is included in the Georgian Bay system figures it must be excluded from those of the Niagara system. The correction has been made in all subsequent years.

#### Municipalities Served

At the end of the fiscal year, the number of municipalities served in Ontario by the Commission was 760. This number included 27 cities, 96 towns, 270 villages and police villages, and 367 townships. With the exception of 14 suburban sections of townships known as voted areas, the townships and 93 of the smaller villages are served as parts of 171 rural power districts.

#### Rural Line Expansion

The total mileage of rural lines constructed, or under construction, at the end of October, 1934, amounted to 9,461 miles, of which 183 miles represented the construction program during the year 1934.

DISTRIBUTION OF POWER TO SYSTEMS—TOTAL PRIMARY AND SECONDARY  
20-MINUTE PEAK HORSEPOWER—SYSTEM COINCIDENT PEAKS

System	1928	1929	1930	1931	1932	1933	1934
October							
Niagara system, 25-cycle..	878,327	948,412	1,038,110	860,630	867,446	1,055,697	1,071,046
Dominion Power & Trans.			58,579	48,659	43,968	45,710	50,670
Eastern Ontario system.....	77,654	82,299	87,990	85,857	80,544	86,890	121,823
Georgian Bay system.....	20,082	22,118	23,355	26,356	25,666	23,887	24,488
Thunder Bay system.....	48,910	77,117	73,968	51,600	65,700	90,450	99,866
Manitoulin rural power dist.						80	88
Northern Ont. properties:							
Sudbury district.....			12,935	10,724	7,574	12,466	12,466
Abitibi district.....				17,800	11,340	45,389	64,075
Nipissing district.....	3,170	3,599	3,745	3,689	3,751	3,539	3,840
Patricia district.....			1,582	1,912	2,048	2,627	2,828
Espanola district.....							509
Total.....	1,028,143	1,133,545	1,300,264	1,107,227	1,108,037	1,366,735	1,451,699
December							
Niagara system, 25-cycle..	893,231	969,123	1,073,400	883,200	838,338	1,134,262	1,150,938
Dominion Power & Trans.			61,528	56,166	48,525	51,743	54,021
Eastern Ontario system.....	81,548	90,255	93,560	91,253	86,716	116,127	127,849
Georgian Bay system.....	21,595	22,961	25,591	27,531	26,424	25,496	26,816
Thunder Bay system.....	66,300	64,588	61,300	50,300	63,800	120,000	122,922
Manitoulin rural power dist.						84	108
Northern Ont. properties:							
Sudbury district.....			10,724	11,059	9,853	12,802	13,003
Abitibi district.....				13,000	13,000	46,890	93,029
Nipissing district.....	3,248	3,492	3,654	4,088	3,799	3,901	4,008
Patricia district.....			1,521	1,926	2,058	2,735	2,855
Espanola district.....							535
Total.....	1,065,922	1,150,419	1,331,278	1,138,523	1,092,513	1,514,040	1,596,084

NOTE.—In some instances the above figures differ slightly from those appearing in the Annual Reports. Corrections have been made for the transfer of power between the Niagara and Georgian Bay systems, inclusion in the Niagara system of Gatineau resale, and, in the earlier years, using system coincident peaks instead of the sum of the district peaks for the Eastern Ontario system and showing Sudbury and Abitibi as separate districts.

In order to encourage a more liberal use of electric power by Ontario farmers, studies were made during the year which had for their objective the further reduction of rural rates and the beneficial utilization of surplus energy. As a result of these studies three major benefits were approved, as follows:

#### *Free Service Inducements*

Commencing November 1, 1934, and during a period of three years thereafter, the Commission will provide current, free of charge, to operate electric washing machines, licensed alternating current radios, and electric pumps to provide water under pressure for household sanitary systems.

The offer is available to all present farm and hamlet users (excepting summer cottages) now supplied from all Hydro rural power districts in Ontario, who are paying standard rural rates approved for each district. It applies also to all new farm and hamlet homes which may be added to these lines as consumers during the three-year period.



## COMPARATIVE FINANCIAL STATEMENTS

## NIAGARA

Year.....	1928	1929
	\$ c.	\$ c.
Power purchased.....	378,630.25	1,638,516.84
Operation, maintenance and administration.....	4,551,317.95	4,711,607.15
*Interest.....	7,880,952.25	8,095,444.48
Provision for renewals.....	1,015,363.26	1,127,242.22
Provision for contingencies, etc.....	2,857,495.02	3,117,605.94
Sinking fund.....	1,672,266.49	1,738,183.90
TOTAL COST OF POWER.....	18,356,025.22	20,428,600.53
Less:		
Amount appropriated from the contingencies reserve of the system and applied in reduction of the cost of power.....		
Net total.....	18,356,025.22	20,428,600.53
REVENUE from municipalities at interim rates, from rural consumers and from private customers under flat rate contracts.....	19,121,214.81	21,664,808.55
Net balance credited or charged to municipalities under cost contracts.....	765,189.59 Credited	1,236,208.02 Credited
Capital investment.....	161,994,023.61	168,004,159.13
*Exchange included in above total of interest.....		

## GEORGIAN BAY

Year.....	1928	1929
	\$ c.	\$ c.
Power purchased.....	13,677.86	32,245.28
Operation, maintenance and administration.....	267,315.34	313,246.50
*Interest.....	247,283.44	255,110.13
Provision for renewals.....	72,267.13	78,574.72
Provision for contingencies, etc.....	47,950.30	52,462.33
Sinking fund.....	55,892.24	59,641.34
TOTAL COST OF POWER.....	704,386.31	791,280.30
REVENUE from municipalities at interim rates, from rural consumers and from private customers under flat rate contracts.....	807,179.08	873,568.95
Net balance credited or charged to municipalities under cost contracts.....	102,792.77 Credited	82,288.65 Credited
Capital investment.....	5,546,340.02	6,310,034.95
*Exchange included in above total of interest.....		

## RESPECTING THE SYSTEMS OF THE COMMISSION

## SYSTEM

1930	1931	1932	1933	1934
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,644,916.07	3,979,524.00	5,513,435.12	6,738,406.63	6,872,793.14
5,606,062.59	5,653,006.77	4,893,571.40	4,800,173.78	4,821,848.99
8,980,374.58	9,502,526.86	10,691,491.55	10,445,990.16	10,138,022.77
1,606,458.27	1,391,105.25	1,579,701.50	1,628,176.44	1,627,164.82
2,893,784.93	617,820.29	118,462.65	125,698.79	129,514.12
1,794,591.02	1,872,727.14	1,977,928.39	1,883,199.99	1,987,207.74
23,526,187.46	23,016,710.31	24,774,590.61	25,621,645.79	25,576,551.58
		2,544,648.63	4,236,606.73	2,869,828.36
23,526,187.46	23,016,710.31	22,229,941.98	21,385,039.06	22,706,723.22
24,467,322.68	23,752,132.85	22,459,448.97	21,096,722.06	22,543,780.63
941,135.22 Credited	735,422.54 Credited	229,506.99 Credited	288,317.00 Charged	162,942.59 Charged
199,799,252.77	208,501,899.28	207,977,388.63	208,143,427.49	208,626,540.68
		605,439.72	416,066.06	74,330.69

## SYSTEM

1930	1931	1932	1933	1934
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
53,201.27	64,410.77	18,810.77	27,316.52	43,832.70
360,061.28	438,941.70	483,137.12	440,008.76	409,286.71
299,428.66	356,655.71	412,557.36	396,690.67	380,745.19
92,375.30	121,800.88	124,737.66	128,111.66	129,844.11
35,695.22	47,827.76	54,229.21	57,148.73	43,570.17
69,344.10	83,789.13	86,698.15	87,826.94	88,348.64
910,105.83	1,113,425.95	1,180,170.27	1,137,103.28	1,095,627.52
926,692.34	1,050,823.94	1,161,831.25	1,163,135.32	1,181,960.85
16,586.51 Credited	62,602.01 Charged	18,339.02 Charged	26,032.04 Credited	86,333.33 Credited
7,940,666.96	8,203,445.46	8,329,025.78	8,394,645.25	8,427,278.77
		36,417.15	19,190.49	4,464.50



## COMPARATIVE FINANCIAL STATEMENTS

## EASTERN ONTARIO

Year.....	1928	1929
	\$ c.	\$ c.
Power purchased.....	363,402.95	440,595.40
Operation, maintenance and administration.....	990,657.54	932,194.87
*Interest.....	783,029.18	810,478.17
Provision for renewals.....	191,653.02	196,129.59
Provision for contingencies.....	411,815.79	260,564.74
Sinking fund.....	23,612.88	151,030.71
<b>TOTAL COST OF POWER.....</b>	<b>2,764,171.36</b>	<b>2,790,993.48</b>
Appropriated from contingencies reserve to cover shortage on operation of local distribution systems.....		
Net total.....	2,764,171.36	2,790,993.48
REVENUE from municipalities at interim rates, from rural consumers and from private customers under flat rate contracts.....	3,054,260.20	3,025,908.37
Excess revenue over cost of power.....	291,088.84	234,914.89
Profit from sale of power to companies and/or local distribution systems, transferred to contingencies reserve.....	218,962.33	148,980.44
Net balance credited to municipalities under cost contracts.....	71,126.51	85,934.45
Capital investment.....	19,446,757.26	20,447,230.08
*Exchange included in above total of interest.....		

## THUNDER BAY

Year.....	1928	1929
	\$ c.	\$ c.
Power purchased.....		3,161.50
Operation, maintenance and administration.....	143,353.98	191,903.99
*Interest.....	651,827.79	662,675.66
Provision for renewals.....	109,106.32	109,200.41
Provision for contingencies, etc.....	107,636.54	332,981.76
Sinking fund.....	131,552.72	132,343.09
<b>TOTAL COST OF POWER.....</b>	<b>1,143,477.35</b>	<b>1,432,266.41</b>
Amount appropriated from contingencies reserve of the system and applied in reduction of the cost of power.....		
Net total.....	1,143,477.35	1,432,266.41
REVENUE from municipalities at interim rates, from rural consumers and from private customers under flat rate contracts.....	1,145,031.55	1,454,080.66
Net balance credited or charged to municipalities under cost contracts.....	1,554.20 Credited	21,814.25 Credited
Capital investment.....	14,332,937.23	15,325,411.00
*Exchange included in above total of interest.....		

RESPECTING THE SYSTEMS OF THE COMMISSION

SYSTEM

1930	1931	1932	1933	1934
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
522,732.86	637,903.94	698,627.59	777,050.62	833,980.26
934,766.36	981,514.88	918,978.04	761,603.57	724,389.50
913,872.57	938,745.56	968,995.87	894,253.67	913,406.78
214,924.91	241,193.70	248,330.65	227,793.09	242,903.39
115,160.41	110,668.22	119,387.64	83,188.62	84,924.08
153,835.47	167,272.84	171,432.37	173,029.78	174,813.02
2,860,292.58	3,077,299.14	3,125,752.16	2,916,919.35	2,974,417.03
				115.28
2,860,292.58	3,077,299.14	3,125,752.16	2,916,919.35	2,974,301.75
3,051,987.02	3,232,921.80	3,199,177.07	2,920,450.19	3,084,008.59
191,694.44	155,622.66	73,424.91	3,530.84	109,706.84
117,244.91	136,927.20	48,122.89	1,281.64	
74,449.53	18,695.46	25,302.02	2,249.20	109,706.84
20,917,182.90	21,570,767.11	21,060,823.96	19,372,833.44	19,851,622.12
		41,389.17	48,908.42	62,461.30

SYSTEM

1930	1931	1932	1933	1934
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
474.00				
225,693.87	217,397.15	203,224.26	214,729.82	215,991.04
655,340.84	879,477.46	1,017,730.35	972,869.43	912,622.62
112,798.56	151,173.65	147,471.19	149,518.82	160,490.28
346,252.43		132.36	869.29	1,140.37
137,011.32	135,813.13	137,066.04	140,993.98	148,323.24
1,477,571.02	1,383,861.39	1,505,624.20	1,478,981.34	1,438,567.55
		143,499.15	41,359.65	
1,477,571.02	1,383,861.39	1,362,125.05	1,437,621.69	1,438,567.55
1,481,978.47	1,339,046.63	1,235,438.17	1,380,099.79	1,383,066.52
4,407.45 Credited	44,814.76 Charged	126,686.88 Charged	57,521.90 Charged	55,501.03 Charged
17,645,796.31	18,406,363.39	18,480,738.51	18,630,772.18	18,679,610.73
		100,968.00	58,865.89	



### *Maximum Consumption Charge*

The Commission has found that the maximum economic limit of the first domestic use throughout the Province is 6 cents per kilowatt-hour. It has been decided therefore that in all rural power districts where the first consumption rate exceeds 6 cents per kilowatt-hour, this rate will be reduced to a maximum of 6 cents per kilowatt-hour. The maximum second rate of 2 cents per kilowatt-hour applies to all districts.

### *Third Consumption Rate*

During the year the Commission made available for rural consumers a special rate for long hour uses of power by rural consumers. This particularly affects under-earth heating (hot-beds) and heating of water. Where the use of power may be obtained from the present equipment, a third follow-up rate of 0.75 cents gross is given in all districts. The first rate remains unchanged, except that, as pointed out above, it is subject to a maximum of 6 cents per kilowatt-hour, and the kilowatt-hours to be charged at the first rate remain unchanged. The number of kilowatt-hours to be charged at the second rate varies both with the class of service and the first kilowatt-hour rate. The following is the schedule. It shows the class of service, the number of kilowatt-hours per month to be charged for at the first rate, and the number of kilowatt-hours at the second rate according to the governing first rate.

#### SCHEDULE—FOR EACH CLASS OF RURAL SERVICE—OF KILOWATT-HOURS PER MONTH TO BE CHARGED FOR AT THE FIRST CONSUMPTION RATE AND AT THE SECOND CONSUMPTION RATE

All kilowatt-hours in excess of the sum at the first and second rates to be billed at 0.75 cents per kilowatt-hour

Class of rural service	Number of kw.-hrs. per month at first energy rate	Number of kw.-hrs. per month at second energy rate				
		Where first energy rate in district is:				
		more than 5 cents	4.1 cents to 5 cents	3.1 cents to 4 cents	3 cents	less than 3 cents
1B	30	45	60	75	105	120
1C	30	120	150	180	240	270
2A	30	45	60	75	105	120
2B	30	120	150	180	240	270
3	42	108	138	168	228	258
4	70	180	230	280	380	430
5	70	180	230	280	380	430
6	126	324	414	504	684	774
7	210	540	690	840	1140	1290

It is estimated that the total saving to rural consumers on account of giving free power for the three uses above set out will amount to approximately \$64,000 per year.

It is estimated that the reduction of the first consumption rate to a maximum of 6 cents per kilowatt-hour will mean a saving of approximately \$6,400 per year to the rural consumers so affected.

Based on consumption figures for 1934, it is estimated that the rate reduction involving a new third rate of 0.75 cents will reduce the existing accounts of rural consumers throughout the Province by an amount of approximately \$30,000 per year.

### Water Heaters

During the period November 1, 1933, to October 31, 1934, there were installed 7,848 water heaters, having an average capacity of 600 watts per heater. The total load is, therefore, 4,708.8 kilowatts, or 6,310 horsepower. There were also approximately 900 booster water heaters installed, having an average capacity of 2 kilowatts, or a total capacity of 1,800 kilowatts, or 2,400 horsepower. The estimated annual consumption for booster and flat rate water heaters is 43,000,000 kilowatt-hours.

### Electric Ranges

It is estimated that during the year 1934, 3,000 electric ranges were installed. These ranges have an average demand of 1 horsepower per range, and it is estimated that the annual consumption on these additional ranges amounts to 7,200,000 kilowatt-hours.

### Steam Electric Boilers

In the process of paper-making—one of the most important industries of the Province—much coal-produced steam has been utilized heretofore in drying the paper as it passed over large steam cylinders before being assembled in rolls for shipment. When a serious over-supply of power began to come into the various systems—chiefly the Niagara—arrangements were made for the resale of some part of this surplus to the Gatineau Company at a price competitive with coal for the production of steam by electrically heated boilers. Other paper mills, extending across the Province from Cornwall to Thunder Bay, have become customers for steam-electric power. In most cases the plant utilized in steam production is installed by the Hydro-Electric Power Commission, and remains the property of the Commission. The revenue from this utilization of surplus power, which would otherwise have remained unused, was \$809,386 during the year under review. The quantity used, total revenue, and rate obtained, were as follows:—

#### POWER SOLD FOR STEAM GENERATION—NOVEMBER 1, 1933 TO OCTOBER 31, 1934

System and customer	Contract amount	Total energy delivered	Total revenue	Rate
	horsepower	kw-hrs.	\$ c.	mills
<i>Niagara system</i>				
Canadian International Paper Company	45,000 to	348,993,867	244,295.69	0.7
(Gatineau Power Company).....	55,000	126,526,000	94,894.50	0.75
		475,519,867	339,190.19	
Interlake Tissue Mills Company Limited	10,724	19,799,023	14,849.27	0.75
Norton Co.....	800	1,863,840	3,727.63	2.0
Ontario Paper Co.....	93,834	424,315,089	212,157.52	0.5
Provincial Paper Limited.....	11,394	24,659,635	18,494.71	0.75
Total Niagara system.....		946,157,454	588,419.32	
<i>Eastern Ontario System</i>				
Howard Smith Paper Mills Limited.....	13,405	28,249,500	14,124.75	0.5
Canadian International Paper Company		40,916,300	28,641.41	0.7
(Gatineau Power Company)				
Total Eastern Ontario system.....		69,165,800	42,766.16	

(table continued on next page)



POWER SOLD FOR STEAM GENERATION—NOVEMBER 1, 1933 TO  
OCTOBER 31, 1934—*continued*

System and customer	Contract amount	Total energy delivered	Total revenue	Rate
<i>Thunder Bay System</i>	horsepower	kw-hrs.	\$ c.	mills
National Trust Company..... (Great Lakes Paper Company)	20,107	52,456,000	26,228.00	0.5
Provincial Paper Limited.....	32,131	130,975,000	72,036.25	0.55
Thunder Bay Paper Company (Approx.)..	8,000	24,169,714	12,084.85	0.5
Total Thunder Bay system.....		207,600,714	110,349.10	
<i>Northern Ontario Properties</i>				
Abitibi Power & Paper Company (Iroquois Falls)	32,131	82,640,800	53,716.52	0.65
Abitibi Power & Paper Company..... (Smooth Rock Falls)	52,279	19,220,000 373,000	14,415.00 279.75	0.75
Less reduction by 50% of the cost of power used during the initial testing period, Aug. 1-5, 1934.....		18,847,000	14,135.25	
Total Northern Ontario properties.....		101,487,800	67,851.77	
Total All Systems.....		1,324,411,768	809,386.35	

#### CONSTRUCTIONAL ACTIVITIES

The basis of constructional activity on new hydraulic plants and extensions has been the increase in the value of gold per ounce throughout the civilized world. This has brought about the mining of quantities of marginal ore in developed mines and the opening up of many mines that could not have been operated when gold was worth \$20.00 an ounce. The estimated tonnage of some of these new mines in process of development indicates a rapidly growing field for the sale of electric energy throughout Northern Ontario. The Commission is in a position to supply that energy on favourable terms because of the acquisition by the Government of the Abitibi Canyon plant.

The installation of the second 48,500-kv-a. generator at the Abitibi Canyon development has been completed, and three 110,000-volt transformer stations have been built in Northern Ontario. At Kirkland Lake a 28,500-kv-a. transformer station has been installed to supply power to the Canada Northern Power Corporation, and a 4,500-kv-a. transformer station in Powell Township for a power supply to the Matachewan area. A third transformer station, having a capacity of 39,000 kv-a., and two 25,000-kw. electric steam generators have been installed at the Abitibi Power and Paper Company's plant at Smooth Rock Falls, to supply the Company with secondary power for the generation of steam. Nearly one hundred miles of 132,000-volt transmission lines have been constructed to transmit power from the Abitibi Canyon development to customers in the district.

#### Rat Rapids Development

A small hydro-electric development is under construction at Rat Rapids, at the outlet of lake St. Joseph, and is designed to supply power to mining developments north of the lake in the District of Patricia. This power plant

is seven hundred and thirty miles as the crow flies from Toronto, and in that great area north-west of lake Superior to the Manitoba boundary, it is probable that a number of similar small plants will have to be located. The cost of these plants will be returned by amortization carried for periods so short as to be well within the life of the mines they are called into existence to serve.

All the developments in the region of the Province lying to the north and west of the line of the French river and lake Nipissing, except those of the Thunder Bay system, are the property of the Province, and are operated by this Commission as agent of the Government. Any losses sustained in operation heretofore have been recouped from the provincial treasury; profits which may accrue hereafter will become revenue of the provincial treasury.

The Commission, as agent of the Department of Lands and Forests of Ontario, also carried through certain navigation improvements on the Root river, comprising three marine railways, channel improvements, and about three and a half miles of standard gauge railway.

At the Howard Smith Paper Mills at Cornwall a 20,000-kv-a. transformer station and a 20,000-kw. electric steam generator have been installed and placed in operation. A transmission line was built from Ottawa to the Cornwall transformer station to provide a suitable power supply, at the latter point, on the termination of the supply from the Cedar Rapids Transmission Company.

#### New Rural Consumers

About one hundred and ninety miles of primary rural lines have been constructed and over eighteen hundred new consumers have been supplied with power during the year.

A contract was let for, and construction is well under way on, an addition to the present administration building on University avenue.

#### OPERATING CONDITIONS

The operation of the various systems has measured up to the customary standard of the Commission; in spite of the severe weather conditions during the winter of 1933-34, interruptions were relatively few. Equipment failures of sufficient importance to mention were confined to the armature windings of generators No. 2 and No. 5 at the Ontario Power plant, and No. 2 synchronous condenser at Leaside.

Generating capacity was somewhat reduced on the Georgian Bay system and at Chats Falls due to low stream flow. On the Georgian Bay system the resulting lack of energy was offset by the transfer of power from Niagara system through the Hanover frequency-changer station.

Due to sub-normal precipitation and the lowering of Wanapitei lake for mining interests, some difficulty was experienced in maintaining sufficient stream flow in the Wanapitei river for the Commission's plants, and it was necessary to remove by blasting some obstructions above the Wanapitei dam. By the end of the fiscal year conditions had improved, and the storage basins were replenished. On all other systems water conditions were satisfactory.



## FINANCIAL SUMMARIES

The financial statements embodied in this Report are presented in two main divisions, namely, a division—Section IX—which deals chiefly with the operations of the Commission in the generation, transformation and transmission of electrical energy to the co-operating municipalities and to certain large industries; and a division—Section X—which deals with the various operations of the municipal electric utilities in the localized distribution of electrical energy to consumers. In Section IX, "Rural Operating" reports are also given, which summarize the results of the local distribution of rural electrical service by the Commission to the individual consumers in rural power districts. This work is performed by the Commission on behalf of the respective townships co-operating to provide rural service.

## CAPITAL INVESTMENT

The total investment of the Hydro-Electric Power Commission of Ontario in power undertakings and hydro-electric railways is \$287,387,957.03, exclusive of government grants in respect of construction of rural power districts' lines; and the investment of the municipalities in distributing systems and other assets is \$110,836,805.08, making in power and hydro-electric railway undertakings a total investment of \$398,224,762.11.

The following statement shows the capital invested in the respective systems, districts and municipal undertakings:

Niagara system.....	\$208,626,540.68
Georgian Bay system.....	8,427,278.77
Eastern Ontario system.....	19,851,622.12
Thunder Bay system.....	18,679,610.73
Manitoulin rural power district.....	35,472.86
Nipissing rural power districts.....	22,751.21
Northern Ontario properties.....	25,121,103.24
Hydro-Electric railways.....	2,173,663.59
Office and service buildings, construction plant, inventories, etc. ....	4,449,913.83
	<hr/>
	\$287,387,957.03
Municipalities' distribution systems—all systems.....	91,675,564.93
Other assets of municipal Hydro utilities (exclusive of \$29,274,340.46 of municipal sinking-fund equity in H-E.P.C. system)—all systems .....	19,161,240.15
	<hr/>
	\$398,224,762.11

## RESERVES OF COMMISSION AND MUNICIPAL ELECTRIC UTILITIES

The total reserves of the Commission and the municipal electric utilities for sinking fund, renewals, contingencies and insurance purposes amount to \$138,392,201.38, made up as follows:

Niagara system.....	\$55,092,547.51
Georgian Bay system.....	3,153,898.87
Eastern Ontario system.....	5,984,350.35
Thunder Bay system.....	3,521,436.40
Manitoulin rural power district and Nipissing rural power districts.....	12,714.03
Northern Ontario properties.....	868,608.88
Office and service buildings and equipment.....	750,935.63
Bonnechere storage.....	5,417.39
	<hr/>
Total reserves in respect of Commission's properties.....	\$69,389,909.06
Hydro-Electric railways (Guelph).....	134,722.21
Insurance, workmen's compensation and staff pensions.....	4,690,162.53
	<hr/>
Total reserves of the Commission.....	\$74,214,793.80
Total reserves and surplus of municipal electric utilities.....	64,177,407.58
	<hr/>
Total Commission and municipal reserves.....	\$138,392,201.38

The total reserves of the Commission increased in 1934 by \$4,781,533.55 over the total for 1933, which was \$69,433,260.25. The net increase in total reserves was, in 1934, less than in some former years.

The consolidated balance sheet of the municipal electric utilities, on page 284, shows a total cash balance of \$2,215,914.31, and bonds and other investments of \$2,382,446.41. The total surplus in the municipal books now amounts to \$44,744,584.69, in addition to depreciation and sundry other reserves aggregating \$19,432,822.89; these two amounts making the total of \$64,177,407.58 shown in the above table. The net increase in the municipal utilities' local reserves and surplus was \$4,440,587.82 and the net increase in the total of Commission and municipal reserves for the year was \$9,222,121.37. The increase of reserves since October 31, 1924, has been \$99,351,663.06.

#### REVENUE OF COMMISSION

The revenue of the Commission at interim rates from the municipal utilities operating under cost contracts, from customers in rural power districts and from other customers with whom—on behalf of the municipalities—the Commission has special contracts, all within the Niagara, Georgian Bay, Eastern Ontario and Thunder Bay systems, Manitoulin Island and Nipissing rural power districts aggregates \$28,213,252.72. The revenue of the Commission from customers served by the Northern Ontario properties, which are held and operated in trust for the Province, is \$1,238,311.00, making a total of \$29,451,563.72.

Summarized operating results of these systems and rural power districts, and of the Northern Ontario properties, follow:

#### SYSTEMS OF THE COMMISSION

Revenue from municipal electric utilities and other power customers.....	\$25,380,581.20	
Revenue from customers in rural power districts.....	2,832,671.52	
Total revenue, systems and rural.....		\$28,213,252.72
Operation, maintenance, administration, interest and other current expenses.....	\$26,283,475.40	
Reserves for sinking fund, renewals, contingencies and obsolescence provided in the year.....	4,823,318.99	
Total expenses and reserves.....	\$31,106,794.39	
Less: Appropriated from contingencies reserve.....	2,869,943.64	
Net total.....		28,236,850.75
Net balance charged to municipalities under cost contracts.....	\$	<u>23,598.03</u>

#### NORTHERN ONTARIO PROPERTIES

Revenue from customers.....	\$	1,238,311.00
Operation, maintenance, administration, interest and other current expenses.....	\$1,355,756.05	
Reserves for renewals and contingencies.....	220,309.02	
Total expenses and reserves.....		1,576,065.07
Balance, which is charged to Province of Ontario, subject to repayment out of any future surplus earnings of the properties.....	\$	<u>337,754.07</u>

#### RURAL ELECTRICAL SERVICE

There is now rather more than \$18,300,000 invested in the rural power district systems established by the Commission. Towards this rural work the



Ontario Government, pursuant to its policy of promoting the basic industry of agriculture, has, in the form of grants-in-aid, contributed 50 per cent of the costs of transmission lines and equipment, or some \$9,000,000.

Segregated from the summary of the Commission's operating revenues as a whole, which has been presented above, the data relating to rural power districts show in the aggregate a revenue from rural customers of \$2,832,671.52 which was \$76,295.20 less than the total cost, including reserve requirements computed at the customary rates.

#### RURAL POWER DISTRICTS—OPERATIONS FOR THE YEAR 1934

	Niagara system	Georgian Bay system	Eastern Ontario system	Thunder Bay system	Mani- toulin rural power district	Nipissing rural power districts	Totals
	\$ c.	\$ c.	\$ c.	c.	\$ c.	\$ c.	\$ c.
Cost of power as provided to be paid under Power Commission Act.....	831,512.85	102,384.33	183,714.46	3,177.88	3,750.00	4,399.67	1,128,939.19
Cost of operation, maintenance and administration.....	529,535.07	58,267.17	122,170.71	3,531.59	2,313.61	2,013.95	717,832.10
Interest.....	301,774.53	36,986.15	82,273.43	2,818.50	1,888.53	998.33	426,739.47
Renewals.....	259,028.24	30,557.10	65,611.42	2,280.75	1,288.67	840.14	359,606.32
Obsolescence and contingencies.....	129,514.12	15,278.55	32,805.71	1,140.37	644.33	420.07	179,803.15
Sinking fund.....	68,856.46	8,450.52	17,540.50	600.41	373.52	225.08	96,046.49
Total expenses.....	2,120,221.27	251,923.82	504,116.23	13,549.50	10,258.66	8,897.24	2,908,966.72
Revenue from customers.....	2,080,385.53	242,562.04	479,968.71	11,793.92	8,235.38	9,725.94	2,832,671.52
Balances credited to districts or charged to municipalities comprising districts:							
Net credit, all districts.....						828.70	828.70
Net charge, all districts.....	39,835.74	9,361.78	24,147.52	1,755.58	2,023.28		77,123.90
Net charge, all systems.....							76,295.20

#### MUNICIPAL ELECTRIC UTILITIES

The following is a summation of the year's operation of the local electric utilities conducted by municipalities receiving power under cost contracts with the Commission:

Total revenue collected by the municipal electric utilities.....	\$31,970,390.08
Cost of power.....	\$19,591,887.79
Operation, maintenance and administration.....	5,093,212.46
Interest.....	2,204,994.25
Sinking fund and principal payments on debentures.....	2,358,169.12
Depreciation and other reserves.....	2,036,637.33
Total.....	31,284,900.95
Surplus.....	\$ 685,489.13

The following statements respecting the several systems and the Northern Ontario properties summarize the financial features of their operation. The municipalities included in each system, the territories served by each system, and the power supplies provided for each system, are shown on the map at the end of the Report and in tabular statements in the body of the Report.

#### NIAGARA SYSTEM

The total capital invested by the Commission on behalf of the co-operating municipalities of the Niagara system amounts to \$208,626,540.68. This amount includes the investment in the power properties purchased from the Dominion Power and Transmission Company (which have been merged with, and now form part of the Niagara system), also the Commission's share of the generating plant at Chats Falls, together with the transformer and switching stations at that point and the transmission lines from the Ottawa river to the Niagara system. The accumulated reserves for renewals, obsolescence, contingencies and sinking fund, aggregate \$55,092,547.51.

From customers in the rural power districts of this system the revenue received by the Commission for the year was \$2,080,385.53, and the total cost of supplying service was \$2,120,221.27, leaving a balance of \$39,835.74, which has been charged to the rural power districts of this system.

With respect to the electric utilities of the various urban municipalities of the Niagara system served under cost contracts, the cost of power as adjusted by the Commission at the close of the year was \$123,106.85 more than the total amount collected at the interim rates and this sum has been charged to the municipal utilities.

The total revenue of the municipal electric utilities served by this system was \$26,191,701.88, an increase of \$1,167,263.19 as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to \$1,655,012.39, and providing \$2,161,666.45 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Niagara system amounted to \$239,441.59.

#### GEORGIAN BAY SYSTEM

The total capital invested by the Commission on behalf of the co-operating municipalities of the Georgian Bay system amounts to \$8,427,278.77. The accumulated reserves for renewals, obsolescence, contingencies and sinking fund aggregate \$3,153,898.87.

From customers in the rural power districts of this system the revenue received by the Commission for the year was \$242,562.04, and the total cost of supplying service was \$251,923.82, leaving a balance of \$9,361.78, which has been charged to the rural power districts of this system.

With respect to the electric utilities of the various urban municipalities of the Georgian Bay system served under cost contracts, the cost of power supplied by the Commission during the year was \$95,695.11 less than the total amount collected at the interim rates and this sum has been credited to the municipal utilities.



The total revenue of the municipal electric utilities served by this system was \$1,169,921.21, an increase of \$34,665.86 as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to \$74,603.00, and providing \$54,745.02 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Georgian Bay system amounted to \$86,378.01.

#### EASTERN ONTARIO SYSTEM

The total capital invested by the Commission on behalf of the co-operating municipalities of the Eastern Ontario system amounts to \$19,851,622.12. The accumulated reserves for renewals, obsolescence, contingencies and sinking fund aggregate \$5,984,350.35.

From customers in the rural power districts of this system the revenue received by the Commission for the year was \$479,968.71, and the total cost of supplying service was \$504,116.23, leaving a balance of \$24,147.52, which has been charged to the rural power districts of this system.

With respect to the electric utilities of the various urban municipalities of the Eastern Ontario system served under cost contracts, the cost of power supplied by the Commission during the year was \$133,854.36 less than the total amount collected at the interim rates and this sum has been credited to the municipal utilities.

The total revenue of the municipal electric utilities served by this system was \$3,308,659.41, an increase of \$165,809.26 as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to \$184,205.05, and providing \$125,546.87 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Eastern Ontario system amounted to \$294,876.54.

#### THUNDER BAY SYSTEM

The total capital invested by the Commission on behalf of the co-operating municipalities of the Thunder Bay system amounts to \$18,679,610.73. The accumulated reserves for renewals, obsolescence, contingencies and sinking fund aggregate \$3,521,436.40.

From customers in the rural power districts of this system the revenue received by the Commission for the year was \$11,793.92, and the total cost of supplying service was \$13,549.50, leaving a balance of \$1,755.58, which has been charged to the rural power districts of this system.

With respect to the electric utilities of the various urban municipalities of the Thunder Bay system served under cost contracts, the cost of power supplied by the Commission during the year was \$53,745.45 more than the total amount collected at the interim rates and this sum has been charged to the municipal utilities.

The total revenue of the municipal electric utilities served by this system was \$1,300,107.58, a decrease of \$25,190.11 as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to \$39,804.75, and

providing \$16,210.78 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Thunder Bay system amounted to \$64,792.99.

#### NORTHERN ONTARIO PROPERTIES

In accordance with the agreement under which the Commission holds and operates the Northern Ontario properties in trust, for the Province, the properties are for purpose of financial administration treated as one unit. The total capital invested by the Commission on behalf of the Province in the Northern Ontario properties is \$25,121,103.24, and the accumulated reserves for renewals, obsolescence and contingencies aggregate \$868,608.88.

The costs of operation for the year, including interest and the sum of \$220,309.02 set aside to renewals and contingencies reserves, were \$1,576,065.07. The costs exceeded the revenues from customers supplied with power from the Northern Ontario properties, by \$337,754.07, which amount, in accordance with the governing agreement, is charged to the Province, subject to repayment out of any future surplus earnings of the properties.

#### THE ANNUAL REPORT

The Table of Contents, pages xxv and xxvi, conveys a good understanding of the scope of the matters dealt with in the Report, to which there is also a comprehensive Index. To those not conversant with the Commission's Reports the following notes will be useful.

In Section II, pages 5 to 57, dealing with the Operation of the Systems, are a number of interesting diagrams showing, graphically, the monthly loads on the several systems and districts. Tables are also presented showing the amounts of power taken by the various municipalities in October during the past three years.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section III, on pages 65 to 84. The power distributed to rural districts is, and possibly must always be, but a relatively small proportion of the power distributed by the Commission. The supplying of electrical service in rural areas, and especially on the farm, has, however, been of great economic benefit to Ontario. The Provincial Government grants-in-aid of the capital cost of this work have been of value to agricultural activities, and have assisted the Commission to extend rural transmission lines to many areas.

In Sections IV, V and VI will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

About one-half of the Report is devoted to financial and other statistical data which are presented in two Sections IX and X.

Section IX presents in summary form the financial statements relating to the operations of the Commission chiefly in the generation, transformation and transmission of electrical energy to the co-operating municipalities. It is introduced by an important explanatory statement which appears on pages 133 to 137, to which special reference should be made.



Section X presents in summary form the financial statements relating to the operations of the municipalities in the localized distribution of electrical energy to consumers. It also contains details of the costs of electrical energy to consumers in the various municipalities and tabular statements of the rates in force which have produced these costs. An explanation of the various tables and statements is given at the commencement of this Section on pages 277 to 279, and a special introduction to Statement "D," which relates to the cost of electrical service in Ontario, together with a diagram, appears on pages 402 to 405.

In its Annual Reports the Commission aims to present a comprehensive statement respecting the activities of the whole undertaking under its administration. Explanatory statements are suitably placed throughout the Report. The Commission receives many letters asking for general information respecting its activities, as well as requests for specific information concerning certain phases of its operations. In most cases these enquiries can satisfactorily be answered by simply directing attention to information presented in the Annual Report of the Commission.

\* \* \*

During the year of which this summary is a record, the personnel of the Commission has been entirely changed. When the year began on 1st November, 1933, the Commissioners were Honourable J. R. Cooke (Chairman), Mr. C. Alfred Maguire (Vice-Chairman), and Right Honourable Arthur Meighen. Mr. Meighen resigned on May 18, 1934, and by Order-in-Council, dated July 11, 1934, the other two members of the Commission were retired from office, Mr. T. Stewart Lyon (Chairman), Honourable Arthur W. Roebuck and Honourable T. B. McQuesten being appointed in their stead, the latter two serving without salary.

Extensive changes have been made in the personnel of the chief officials of the Commission, among those retired were Mr. F. A. Gaby, chief engineer, Honourable I. B. Lucas, general solicitor, Mr. A. V. White, consulting engineer and Mr. E. A. Hugill, head of the Right-of-Way department. Mr. J. W. Gilmour, treasurer, retired on pension immediately before the present Commission assumed office, and Mr. John Littlejohn retired on pension shortly after the present Commission assumed office. Mr. Littlejohn had charge of the Insurance department of the Commission. The position of treasurer has not been filled. Mr. T. K. Jones, formerly assistant-treasurer, is now acting-treasurer. The duties of Mr. Gaby have been divided, for the most part, between Dr. T. H. Hogg, who has become engineer in charge of construction and operation, and Mr. R. T. Jeffery, who is in charge of municipal relations and power sales.

At the close of the fiscal year further changes in staff were pending, which it was believed would still further reduce the administrative cost, without any lessening of efficiency. Most of the officials slated for retirement have reached the age of 60 years and were entitled to retiring allowances under the system of contributory pensions, which has been in operation since 1923.

It is the opinion of the undersigned that these changes have promoted rather than retarded the spirit of goodwill and co-operation that must exist in an organization so complicated and so large as that of the Hydro-Electric Power Commission of Ontario, if the best possible service is to be rendered by the members of the staff.

There is evidence that in their dealings with the local power commissions, with private consumers of energy and with the public generally, the members of the staff in all departments have a firm grasp of the basic principle underlying the operations of the Commission, that of providing light and power at cost to all sections of the people of the Province. There will always be consumers with grievances to present to the officials and to the Commission for redress. Assurance can be given that such grievances will not be treated cavalierly, but will be enquired into, without prejudice, and settled with a desire to do justice in every case.

Since the closing of the books of the Commission for the year ending October 31, 1934, there has been a continuing increase in the power sales of the Commission. It has not been so great as the optimistic prophets of former years believed it would be, but it has shown a steady upward curve. This has been true especially in Northern Ontario, where much of the increase in the output of gold mining companies has been due to the provision made by the Commission for the sale of power at prices materially below those obtaining before the Commission entered the field in competition for gold mining power loads.

Respectfully submitted,

T. STEWART LYON,

*Chairman*



TORONTO, ONTARIO, March 31st, 1935.

T. STEWART LYON, Esq.,

*Chairman, The Hydro-Electric Power Commission of Ontario,  
Toronto, Ontario.*

Sir,—I have the honour to transmit herewith the Twenty-seventh Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ended October 31st, 1934.

I have the honour to be,

Sir,

Your obedient servant,

W. W. POPE,  
*Secretary*

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## MAP

TRANSMISSION LINES AND STATIONS OF THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO - - - - -	At end of volume
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# TWENTY-SEVENTH ANNUAL REPORT OF THE Hydro-Electric Power Commission of Ontario

## SECTION I

### LEGAL

AT the 1934 Session of the Legislative Assembly of the Province of Ontario an Act to amend The Power Commission Act, entitled The Power Commission Act 1934, was passed. It is reproduced in full in Appendix I of this Report.

The agreements between The Hydro-Electric Power Commission of Ontario and the municipalities and corporations mentioned in the list hereunder given were approved by Order-in-Council, dated the 16th day of November, 1934.

VILLAGES		TOWNSHIPS	
Cobden.....	Sept. 6, 1934	Bromley.....	June 23, 1934
		Carrick.....	Oct. 16, 1933
		Culross.....	Oct. 17, 1933
		Dalhousie and North Sherbrooke.....	Dec. 15, 1933
		London.....	Sept. 7, 1933
		Mountain.....	Jan. 16, 1934
		Thorah.....	Sept. 8, 1933
CORPORATIONS			
American Cyanamid Company.....		Dec. 16, 1933	
Canadian Industries Limited.....		May 31, 1933	
Davis Leather Company Limited.....		Oct. 1, 1933	
His Majesty The King, represented by the Deputy Minister of National Defence of the Dominion of Canada—Contract "A".....		Sept. 1, 1933	
His Majesty The King, represented by the Deputy Minister of National Defence of the Dominion of Canada—Contract "B".....		Sept. 1, 1933	
Howard Smith Paper Mills Limited—5,000 H.P.....		Mar. 5, 1934	
Howard Smith Paper Mills Limited—Surplus Power.....		Mar. 5, 1934	
Howard Smith Paper Mills Limited—2,400 H.P.....		June 20, 1934	

## RIGHT-OF-WAY

### Rural Power Lines

Wood-pole lines and extensions were constructed in the following rural power districts during the year: Alexandria, Aylmer, Bala, Barrie, Baysville, Beamsville, Beaumaris, Beaverton, Belleville, Brant, Chesterville, Cobourg, Fenelon Falls, Goderich, Grantham and Homer, Gravenhurst, Haldimand, Hawkestone, Huntsville, Innisfil, Iroquois, Kingston, Lakefield, Lindsay, London, Markdale, Martintown, Maxville, Millbrook, Napanee, Niagara, Norwood, Omemee, Oshawa, Owen Sound, Peterboro, Preston, Simcoe, Smiths Falls, Sparrow Lake, St. Thomas, Strathroy, Trenton, Utterson, Uxbridge, Walsingham, Waterdown, Welland, Wellington, Williamsburg.

Where possible, rural power lines are constructed on public highways or roads, but in a few cases, in order to avoid cutting trees or owing to special local conditions, lines have been placed on private property. In such cases the necessary right-of-way has been acquired and compensation made for tree trimming or cutting. In a number of cases, due to highway construction improvement, it has been necessary to re-locate existing pole lines. Satisfactory arrangements have been made with the Department or Commission having jurisdiction over these roads.

### High- and Low-Tension Wood-Pole Lines

Right-of-way easements and tree trimming rights have been secured for the construction of various wood-pole lines listed in the following table:

#### TRANSMISSION, DISTRIBUTION AND RURAL LINES ON WHICH CONSTRUCTION WORK WAS DONE DURING THE YEAR ENDING OCTOBER 31, 1934

Albion Park junction to Woodbridge distributing station.  
Aylmer junction to Port Stanley distributing station.  
Ayr junction to Ayr distributing station.  
Ayr junction to Drumbo distributing station.  
Baden distributing station to Wellesley.  
Brantford Sand and Gravel junction to L. E. & N. railway junction.  
Burlington distributing station to National Fireproofing junction.  
DeCew Falls generating station to Bartonville switching station.  
DeCew Falls generating station to Thorold junction.  
Derby Mills junction to Hepworth distributing station.  
Dundalk junction to Priceville distributing station.  
Erbs junction to Hanover frequency changer station.  
Essex transformer station to Maidstone junction.  
Eugene Phillips junction to Brockville distributing station.  
Fletcher junction to Merlin distributing station.  
Fletcher junction to Tilbury distributing station.  
Forfar distributing station to Westport.  
Fraxa junction to Orangeville distributing station.



### High- and Low-Tension Wood-Pole Lines—Continued

Glendale junction to Lambeth junction.  
Islington junction to Weston junction.  
London transformer station to Strathroy.  
Mount Joy distributing station to Ringwood distributing station.  
Napanee rural station to Bath.  
Newcombe junction to Welcome junction.  
Nipissing power house to Bingham Chute junction.  
Norwich junction to Tillsonburg.  
Paris to Ayr junction.  
Picton junction to Wellington distributing station.  
Prince Albert junction to Como junction.  
Ruthven junction to Leamington distributing station.  
Tara distributing station to Port Elgin junction.  
Tiffin junction to Midland distributing station.  
Waterloo rural station to Bridgeport.  
Waubaushe switching station to Midland distributing station.  
Wellington distributing station to Picton distributing station.  
Williamsburg distributing station to Winchester distributing station.  
Winchester junction to Williamsburg distributing station.  
Woodbridge distributing station to Kleinburg distributing station.  
Woodstock transformer station to Norwich junction.  
York junction to Kipling Avenue junction.

### Substation Sites

Two sites were purchased during the year for Marmora distributing station and Louth distributing station.

### High-Voltage Lines

Further settlements for right-of-way, tree trimming rights and damages in connection with high-voltage lines were made. The lines involved in this work include the 220,000-volt line from the Quebec boundary to Chats Falls, over which power from the Beauharnois Company and the McLaren Company is transmitted to connect with the 220,000-volt lines from Chats Falls to the Niagara system at Toronto, and the 110,000-volt 60-cycle line from Ottawa to Cornwall.

In a number of cases satisfactory settlements could not be reached by negotiation and awards were made under arbitration proceedings.

### Northern Ontario Properties

Negotiations with the Sylvanite Gold Mining Company for a site for a transformer and distributing station at Kirkland Lake are proceeding. With respect to the Iroquois Falls to Kirkland Lake transmission line, 26 settlements were made and negotiations respecting others are in hand. In certain cases poles and anchors have been placed on rough land, the owners of which have not yet been traced. In connection with the Kirkland Lake-Matachewan line, easements are being prepared to enable distribution lines to reach various mining companies.

**General**

Additional portions of the right-of-way of the Brantford and Hamilton Electric Railway were sold to the owners of adjoining properties. Practically all of this right-of-way has now been disposed of except portions at either end in connection with which negotiations are being carried on with the Department of Highways. It is hoped that these portions can be utilized for highway purposes.

Certain other lands not required by the Commission were sold.

## SECTION II

### OPERATION OF THE SYSTEMS

#### Operating Conditions

Low stream flow reduced the available capacity of the generating stations in the Georgian Bay system and of Chats Falls station. In the Georgian Bay system the situation was relieved by the transfer of power from the Niagara system through the frequency-changer station at Hanover. In the Niagara system there was sufficient surplus capacity so that the reduced capacity of Chats Falls caused no interference with service. In other systems stream flow conditions were generally satisfactory.

The extremely cold weather from the latter part of December, 1933, to the middle of February, 1934, caused a few interruptions to service in different parts of the Province due to the contraction and breakage of conductors, but the transmission lines in general stood up well.

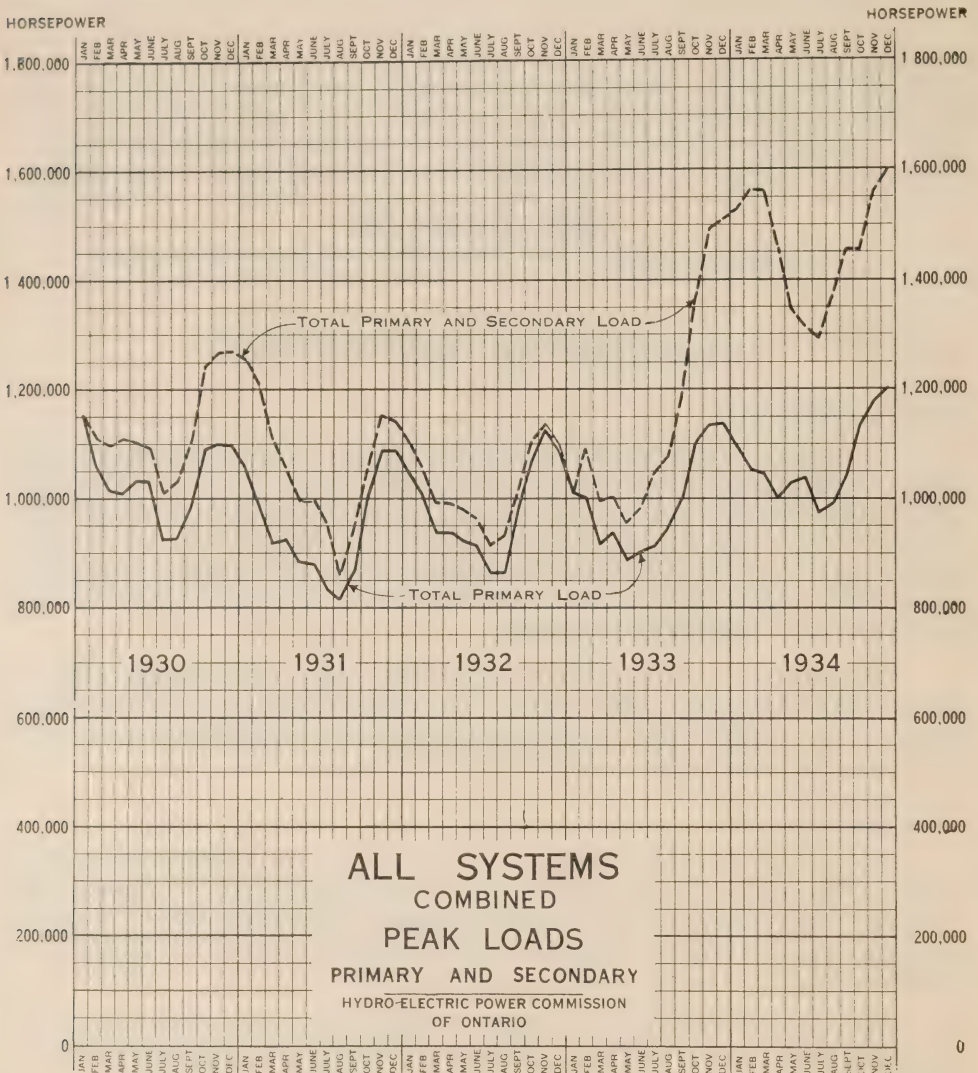
#### Load Conditions

During the year the combined systems carried the largest load in their history. The yearly peak, i.e., the sum of the peak loads of all the systems, was 1,600,314 horsepower, 16.6 per cent in excess of the corresponding figure for last year. The total energy generated and purchased amounted to 6,419,998,863 kilowatt-hours, an increase of 39 per cent over 1933.

Unfortunately these large increases in total load do not reflect corresponding increases in revenue for they include large quantities of secondary power for which the revenue received is very much less than that received from primary power. Twenty-eight per cent of the total load was made up of secondary energy and the increases mentioned above are largely due to increases in that type of load. It will be apparent, then, that the primary load gives a better indication of revenue and industrial conditions than does the total load. For this reason the former has been given special prominence throughout this Report, which for the first time shows both the primary and total loads in graphic form.

From a study of the load data the following broad statement can be made concerning the trend of primary load: The downward trend of primary load commenced in the latter part of 1930, and continued throughout 1931 and 1932, reaching its lowest levels in the early part of 1933. During the spring and summer of 1933 there was a rapid recovery, which was referred to in last year's Report. The rate of increase was not so great during the latter part of 1933 and the early part of 1934, but rose again rapidly in the spring of 1934. In the





latter part of the year the rate of increase was again somewhat less. Over the complete period from the early part of 1933 to the end of 1934 there has been a general upward trend, but the rate of increase has been smaller than in normal times.

In many territories the result of this general upward trend has been a complete recovery of the lost load, in fact the primary load this year has generally exceeded the 1930 peaks. Unfortunately, however, this is not the case in the Niagara system as the graphic record clearly shows when allowance is made for the fact that the load of the Dominion Power and Transmission district which has been included from November 1, 1931, onward was not included in the 1930 peak.

It is not suggested that this statement of trend is clearly borne out by every one of the system primary load graphs, in fact both the table and the graphs contain what appear to be discrepancies and contradictions, some of which, however, are explainable and disappear upon closer study.

It has been customary to compare the current year's loads for the various systems and districts with the load for the previous year. In order to simplify this comparison in this Report, a table which shows both primary and total load, is here given. It will be noted that the figures show a wide variation in the gains from the preceding year. This is largely due to the fact that progress during the last two years has not been uniformly continuous. Under such circumstances, figures for increases over the corresponding month of the previous year are necessarily erratic—in some cases gains appear unduly favourable because the corresponding figure for the previous year was unduly low; in other cases the reverse is true.

### COMPARISON OF LOADS

Showing the Per Cent Increase in 1934 Over the Corresponding Period for 1933

System	Fiscal Year 1934		December 1934	
	Yearly peak load Increase	Energy in kw-hrs. Increase	Monthly peak load Increase	Energy in kw-hrs. Increase

### PRIMARY LOADS

	Per cent	Per cent	Per cent	Per cent
Niagara 25-cycle.....	—0.2	8.0	2.5	4.2
Dominion Power & Transmission.....	7.4	14.4	4.4	1.2
Eastern Ontario.....	6.5	11.0	5.3	7.0
Georgian Bay.....	4.7	5.9	5.2	6.1
Thunder Bay.....	—1.6	1.4	27.3	39.8
Northern Ontario Properties:				
Nipissing district.....	2.7	2.7	2.7	3.0
Sudbury district.....	5.4	30.8	1.6	7.8
Patricia district.....	7.7	32.6	4.4	—1.0
Abitibi district.....	98.3	88.2	123.0	181.0
All systems.....	2.2	9.5	5.7	9.0

### TOTAL SYSTEM LOADS—PRIMARY AND SECONDARY

Niagara 25-cycle.....	12.2	35.2	1.5	—5.2
All other systems, total loads.....	31.2	54.2	17.2	22.7
All systems.....	16.6	39.2	5.4	1.3

Note—Minus sign indicates decreases.

The amount of power generated in each of the Commission's generating stations and the amount of power purchased from each source is shown herein in a table similar to that which has appeared in previous Reports.

TOTAL POWER GENERATED  
HYDRO-ELECTRIC GENERATING PLANTS

Generating plants	Maximum normal plant capacity Oct. 31, 1934 horsepower	Peak load during fiscal year		Total output during fiscal year	
		1932-33 horse- power	1933-34 horse- power	1932-33 kilowatt- hours	1933-34 kilowatt- hours
<b>Niagara system</b>					
Queenston-Chippawa—Niagara river.....	500,000	461,126	455,764	1,834,328,000	2,028,891,000
"Ontario Power"—Niagara river.....	180,000	119,303	164,879	145,624,000	549,339,000
"Toronto Power"—Niagara river.....	150,000	70,375	136,729	64,521,000	245,698,000
Chats Falls (Ontario half)—Ottawa river.....	96,000	94,504	97,185	124,024,550	222,959,000
DeCew Falls—Welland Canal.....	50,000	42,091	47,450	97,082,300	120,348,300
Steam Plant—Hamilton.....	24,000		3,753	24,800	—1,869,200
<b>Georgian Bay system</b>					
South Falls—South Muskoka river.....	5,600	6,011	5,866	20,495,760	20,391,840
Hanna Chute—South Muskoka river..	1,600	1,609	1,743	6,676,800	5,690,400
Trethewey Falls—South Muskoka river	2,300	2,145	2,145	8,925,600	8,258,400
Bala No. 1 and 2—Muskoka river.....	600	583	576	2,224,344	2,772,888
Big Chute—Severn river.....	5,800	5,791	5,791	16,396,920	19,740,840
Wasdells Falls—Severn river.....	1,200	1,227	1,139	3,403,240	3,599,520
Eugenia Falls—Beaver river.....	7,800	7,614	7,748	17,794,960	13,593,600
Hanover—Saugeen river.....	400	382	389	104,524	506,736
Walkerton—Saugeen river.....	500	503	476	1,307,100	1,900,800
Southampton—Saugeen river.....	300	0	0	0	0
<b>Eastern Ontario system</b>					
Sidney-Dam No. 2—Trent river.....	4,500	3,619	4,960	7,826,700	14,500,900
Frankford-Dam No. 5—Trent river....	3,500	1,810	3,753	225,500	6,250,300
Meyersburg-Dam No. 8—Trent river....	7,000	7,507	7,828	11,160,530	22,117,420
Hague's Reach-Dam No. 9—Trent river	4,500	4,625	5,295	7,245,700	12,502,030
Ranney Falls-Dam No. 10—Trent river	10,500	10,456	10,858	13,937,820	30,101,880
Seymour-Dam No. 11—Trent river....	4,200	3,150	4,759	7,981,130	14,696,160
Heely Falls-Dam No. 14—Trent river	15,300	15,282	16,086	20,118,400	36,489,320
Auburn-Dam No. 18—Otonabee river	2,400	1,984	2,480	6,467,050	9,558,790
Fenelon Falls-Dam No. 30—Sturgeon river..	1,000	938	1,046	1,410,300	1,176,550
High Falls—Mississippi river.....	3,000	3,117	3,264	4,263,720	7,325,640
Carleton Place—Mississippi river.....	400	375	228	11,848	840
Calabogie—Madawaska river.....	5,400	1,588	1,729	4,433,951	5,048,472
Galetta—Mississippi river.....	1,100	402	690	12,660	8,800
<b>Thunder Bay system</b>					
Cameron Falls—Nipigon river.....	73,500	48,700	73,100	115,494,000	269,658,000
Alexander—Nipigon river.....	50,000	48,200	53,300	173,030,400	221,205,600
<b>Northern Ontario properties</b>					
<b>Nipissing district</b>					
Nipissing—South river.....	2,100	2,366	2,279	4,728,040	6,392,080
Bingham Chute—South river.....	1,200	1,307	1,314	3,040,800	2,770,240
Elliott Chute—South river.....	1,700	1,910	1,944	3,989,000	2,916,200
<b>Sudbury district</b>					
Coniston—Wanapitei river.....	5,900	5,563	5,429	16,322,328	20,942,088
McVittie—Wanapitei river.....	2,900	2,882	2,882	12,076,344	17,013,624
Stinson—Wanapitei river.....	7,500	6,233	6,166	17,335,704	21,851,040
<b>Patricia district</b>					
Ear Falls—English river.....	4,000	2,627	2,828	10,679,000	14,160,500
<b>Abitibi district</b>					
Abitibi Canyon—Abitibi river.....	110,000	45,389	67,024	30,950,000	236,413,950
<b>Total generated.....</b>	<b>1,347,700</b>	<b>*</b>	<b>*</b>	<b>2,815,674,823</b>	<b>4,214,921,548</b>

\*Because the peak loads on the various generating plants and purchased power sources usually occur at different times, the sum of the individual peak loads would not represent the sum of the peak loads on the systems. These, in the case of each system must relate to the maximum load occurring at any one time. Consequently, the column headed "Peak Load" is not totalled.



## AND PURCHASED—ALL SYSTEMS

## POWER PURCHASED

Power source	Contract amount horsepower Oct. 31, 1934	Total purchased	
		1932-33 kilowatt-hours	1933-34 kilowatt-hours
Canadian Niagara Power Co.—25-cycle.....	20,000	95,132,300	95,665,400
Gatineau Power Co.—25-cycle.....	260,000	1,074,498,785*	1,171,560,825*
Ottawa Valley Power Co.....	96,000	124,024,550	222,959,000
Beauharnois Light, Heat & Power Co.....	129,000	157,340,000	355,120,000
MacLaren Quebec Power Co.....	40,000	28,835,800	106,036,000
Canadian Niagara Power Co.—For D.P. & T. 66-cycle system†.....		57,855,000	10,037,000
Welland Ship Canal‡.....			46,400
Campbellford Water & Light Commission†.....			
Cedars Rapids Power Co.§.....		29,779,500	23,157,000
M. F. Beach Estate.....	500	831,600	980,800
Rideau Power Co.....	487	2,822,800	2,740,700
Ottawa & Hull Power & Mfg. Co.....	20,000	63,660,600	64,078,200
Gatineau Power Co.—60-cycle.....	42,000	128,241,500**	152,113,942**
Orillia Water, Light & Power Commission†.....		—734,530	—247,600
Manitoulin Pulp Co.....	150	99,200	168,900
Ontario Power Service Corporation.....		34,054,060	
Abitibi Power & Paper Co.—Espanola.....	500		645,023
Abitibi Power & Paper Co.—Sturgeon Falls†.....			15,725
Northern Ontario Power Co.†.....			No record
Total purchased.....	608,637	1,796,441,165	2,205,077,315
Power purchased, contract amount, 1934.....		608,637 horsepower	
Maximum normal plant capacity, 1934.....		1,347,700	"
Total available capacity generated and purchased, 1934.....		1,956,337	"
Total available capacity generated and purchased, 1933.....		1,838,337	"
Difference (increase).....		118,000	"
Total energy purchased, 1934.....		2,205,077,315 kilowatt-hours	
Total energy generated, 1934.....		4,214,921,548	" "
Total energy generated and purchased, 1934.....		6,419,998,863	" "
Total energy generated and purchased, 1933.....		4,612,115,988	" "
Difference (increase).....		1,807,882,875	" "

\*Includes 475,519,867 kilowatt-hours resold to the Gatineau Power Co. in 1933-34 and 24,514,285 kilowatt-hours in 1932-33.

\*\*Includes 40,916,300 kilowatt-hours resold to the Gatineau Power Co. in 1933-34 and 0 kilowatt-hours in 1932-33.

†Emergency use.

‡Reciprocal arrangement for surplus power.

§Power contract with the Cedars Rapids Power Co. cancelled as of December 31, 1933, but was extended by agreement as a temporary supply on a month-to-month basis until July 31, 1934.

†Power contract expired December 31, 1933.

**CAUTION:** The figures for "Maximum normal plant capacity" reflect the capacity of the various plants under the most favourable operating conditions which can reasonably be considered as normal, taking into consideration, turbine capacity as well as generator capacity and also the net operating head and available water supply.

Owing, among other things, to changes in generating equipment due to wear and tear or the replacement of parts, also to changes in the limitations governing water levels and effective net heads, the maximum normal plant capacity is not a fixed quantity but is one which must be revised from time to time.

It is particularly important to bear in mind that the column headed "Maximum normal plant capacity" cannot be taken as an indication of the dependable capacity of the various plants; in some cases, it is, but in many cases it is not. Chief among the factors which govern the maximum dependable capacity of a hydraulic power plant and which are not reflected in column headed "Maximum normal plant capacity" are abnormal variations in water supply and operating limitations encountered when plants are so situated on a given stream as to be affected by one another.

### Forestry Division

The Forestry division employs men specially trained in line clearing who in the performance of their duties give due regard to the proper shaping and corrective pruning of trees. During recent years, they have done much to preserve the beauty of trees and improve the appearance of Ontario highways on which the Commission's lines are built. Many favorable comments on their work have been received.

The Forestry division's activities were confined principally to line-clearing operations on the Commission's transmission lines and on the distribution lines of various municipalities in the Niagara, Georgian Bay and Eastern Ontario systems; some work was done on Commission properties adjacent to high-tension stations, and some reforestation carried out along the Queenston-Chippawa canal. Details and costs are given below.

#### Transmission Line-Clearing Operations

The year's operations involved 59,338 trees and the removal of underbrush beneath 1,100 spans, spread over 1,935 miles of power transmission and telephone lines. The following tabulation shows all expenditure in connection with this work.

Item	Miles of line cleared	Volume of work performed	Total cost	Average cost
Underbrushing.....		1,100 pole spans (or 26 miles)	\$ 3,323	\$ c. 3.02
Tree removals.....		9,764 trees	16,696	1.71
Line clearance, pruning and cabling....	1,935	49,574 trees	46,597	0.94
Total.....	1,935	59,338 trees	66,616	.....

Present economic conditions have necessitated a reduction in the cost of forestry operations. Corrective pruning to preserve the health, and extensive shaping to improve the appearance of trees, was temporarily discontinued. Sufficient protection for the Commission's lines was obtained by a modified program of pruning, by cabling trees with weak or split crotches, and by the removal of any found diseased and dangerous.

A comparison of this year's operations with last year shows a substantial reduction in the cost of forestry line-clearing operations notwithstanding an appreciable increase in the volume of work performed and miles of line cleared. This increased volume with decreased costs has been accomplished partly as a result of modifying the standard of work, but is mainly due to major operations having been completed on nearly all lines in the Niagara system and on more than half the lines in the Georgian Bay system. The work required in subsequent operations is materially less than that required in initial major operations which involve corrective pruning and extensive tree removals.

#### Station Tree Maintenance

Some special work was performed to preserve the health and beauty of trees situated on Commission property surrounding high-tension stations at





#### HAZARDS TO LIFE, PROPERTY AND SERVICE

**LEFT**—Elm tree with diseased trunk situated on an important highway. A daily hazard to thousands of lives and to the overhead lines

**RIGHT**— Oak tree with dead branches overhanging transmission line. The result of natural causes not attributable to line-clearance pruning. The removal of dead wood reduces service interruptions

Guelph, Kitchener, Preston, Leaside, Niagara Falls and Queenston in the Niagara system, Belleville in the Eastern Ontario system and Waubauskene in the Georgian Bay system.

Any trees which might influence a landscape engineer received any corrective measures needed to secure their maximum usefulness or beauty. These include pruning and cabling, surgical treatment—often preceded by fertilization—spraying to control insect damage, and the removal of girdling roots that cut off natural circulation of sap. The cost of this work, involving 495 trees, was \$1,038, an average cost of \$2.10 per tree.

#### Reforestation

Along the Queenston-Chippawa power canal the tree planting undertaken to provide a tree lined area which will prevent drifting snow, ice and debris from getting into the canal, and reduce erosion of the banks, was continued. This year, however, work was confined to the replacement of trees that had not survived the unusual droughts of the previous seasons. About 45,000 deciduous and coniferous trees were planted at a total cost of \$967.



### **Municipal Operations**

Surveys of trees affecting distribution lines were made for eight municipal Hydro systems and to each a written report was supplied showing:

- (a) Streets along which the lines extend.
- (b) An actual count of trees affecting primary, secondary and street lighting circuits.
- (c) Size of trees.
- (d) Type of pruning and extent of work required.
- (e) Cabling necessary in trees with structurally weak and splitting crotches.
- (f) Replacement of improper pole guy attachments to trees.
- (g) Diseased trees condemned for removal.
- (h) Estimated cost of performing the work.

Forestry line-clearing operations were performed for six municipalities. The work comprised the pruning of 880 trees, the removal of eleven diseased trees, and the cabling of thirteen trees, a total of 891 trees at a cost of \$825, an average cost of 93 cents per tree.

### **Radio Communication**

The Commission's short-wave radio stations at Toronto, Cameron Falls generating station and Ear Falls generating station operated satisfactorily and no major maintenance costs were incurred.

The construction of the Rat Rapid power development on the Albany river was facilitated by the use of an additional radio station operated at that point.

## **NIAGARA SYSTEM**

### **Generating Stations**

#### **Queenston Station**

During the past year all generating plant and equipment has given satisfactory service. Routine schedules of inspection and repair have been carried out and the plant maintained in first class condition.

All maintenance work is executed in accordance with a carefully prepared schedule in order to avoid interference with the system load. To illustrate the importance of the individual unit in a large plant, it is pointed out that each unit in the Queenston plant represents approximately 50,000 horse-power, sufficient to supply the average requirements of an industrial city of 100,000 people for electrical energy, and that all units must be kept available in order to provide, during periods of maximum load, a reasonable reserve for contingencies. The work of maintaining the plant in first class condition is therefore arranged to be done at the time of the usual seasonal drop in load during the spring and summer.



#### TREE MUTILATION VERSUS SCIENTIFIC PRUNING

**LEFT**—Utilities operating overhead lines are oftentimes subjected to criticism on circumstantial evidence. The mutilation of these trees was not the result of line clearing

**RIGHT**—Scientific line clearing improves aesthetic conditions along Provincial highways and protects service from tree interference

#### OPERATING DEPARTMENT—FORESTRY DIVISION

The ten units were accordingly taken out of service for inspection and repairs as shown below:

Number 1	unit	from	May 1	to	May 14
"	2	"	"	September 7	to October 15
"	3	"	"	June 29	to July 18
"	4	"	"	July 18	to July 28
"	5	"	"	April 24	to May 29
"	6	"	"	August 14	to September 6
"	7	"	"	May 18	to June 13
"	8	"	"	June 15	to June 26
"	9	"	"	June 1	to August 14
"	10	"	"	April 9	to April 23.

During the shut-down each generator and turbine was carefully examined, turbine runners were repaired by welding or replaced with spare runners

where erosion had occurred, bearings were machined and refitted, collector rings were repaired or replaced and the draft tubes were inspected. The associated high-tension and low-tension circuit-breakers were examined, the operating mechanism and contacts adjusted and the oil filtered.

The installation of load limiting devices on the governors of the various units, which was mentioned in last year's Report, was continued and all machines are now so equipped.

The use of stainless steel for the final surface, when building up turbine runners by electric welding, has been continued as this material is still showing a much longer life than either the material previously used for welding or the parent material in the runner.

All relays have been calibrated and their operation checked.

The cliff above the power house was thoroughly scaled between the penstocks, and to the north and south.

#### Ontario Power Station

During the year no difficulties have been experienced in the operation of the plant, although there have been several failures of generator armature windings. The plant has been kept in good operating condition by the usual work of inspection and maintenance.

On November 25, 1933, the armature winding of number 2 generator failed in service and fifteen new coils were installed. This armature again failed on March 7, at another place in the winding, and it was decided to completely remove the old winding, which had been in service since 1909, and rewind with a set of coils of a new type which had been purchased a few years ago for such an emergency.

On November 25 the armature winding of number 5 generator failed in service; three new coils were supplied and repairs made to the ends of two other groups. This armature again failed on March 10, and, as it had been in service since 1909, the complete winding was replaced with a set of new coils.

On March 17, the armature winding of number 7 generator failed in service. It was necessary to replace three coils: two in one group and one in another. This armature again failed on August 24, damaging one coil, which was replaced.

These failures, while they did not interfere with operation, and caused no reduction in the delivery of power to customers, serve as a reminder of the necessity for maintaining sufficient reserve plant at all times.

The operating mechanism of number 6, nine-foot penstock valve failed in January, due to the stripping of the threads on the nuts and screws that operate the valve. The operating mechanism was redesigned, and the new mechanism fabricated and installed on valves number 3 and 6. A similar mechanism for valves number 1, 2 and 4 is being made.

As it was necessary to unwater number 1 conduit to install the new valves, the conduit, headgate, spillway and all penstock valves attached to that conduit were inspected. The conduit, headgate and spillway were found in good



condition. A number of loose bolts in the penstock valves either had to be tightened or replaced. Several pieces of the valve seat-rings were also replaced. The bulkheads on the "Y" between numbers 1 and 2 conduits were found to be leaking badly. The bulkheads were drawn up tightly with the bolts, and the joint welded to complete the seal.

The machine shop in the north end of the generating station, which was started last year and was mentioned in last year's Report, was completed.

The ventilating air intake, at the south end of the generating station, was rebuilt during the summer. The concrete in this structure was considered unsafe due to the action of river ice.

Cleaning and painting, with rust preventing material, of the tunnel section of the penstocks for units 4 to 10 is in progress, number 4 penstock being completed.

The exterior of the screen and gatehouse buildings received extensive repairs. The Roman stone, with which these buildings are surfaced, requires attention each year. The steps leading to the greenhouse roof which is used by tourists as an observatory, were repaired and all joints waterproofed. Replacement of the roof drains was necessary.

In February a new electrically heated hotbed was installed. The bed is for demonstration purposes as well as to raise bedding plants for the station grounds in this district.

#### **Toronto Power Station**

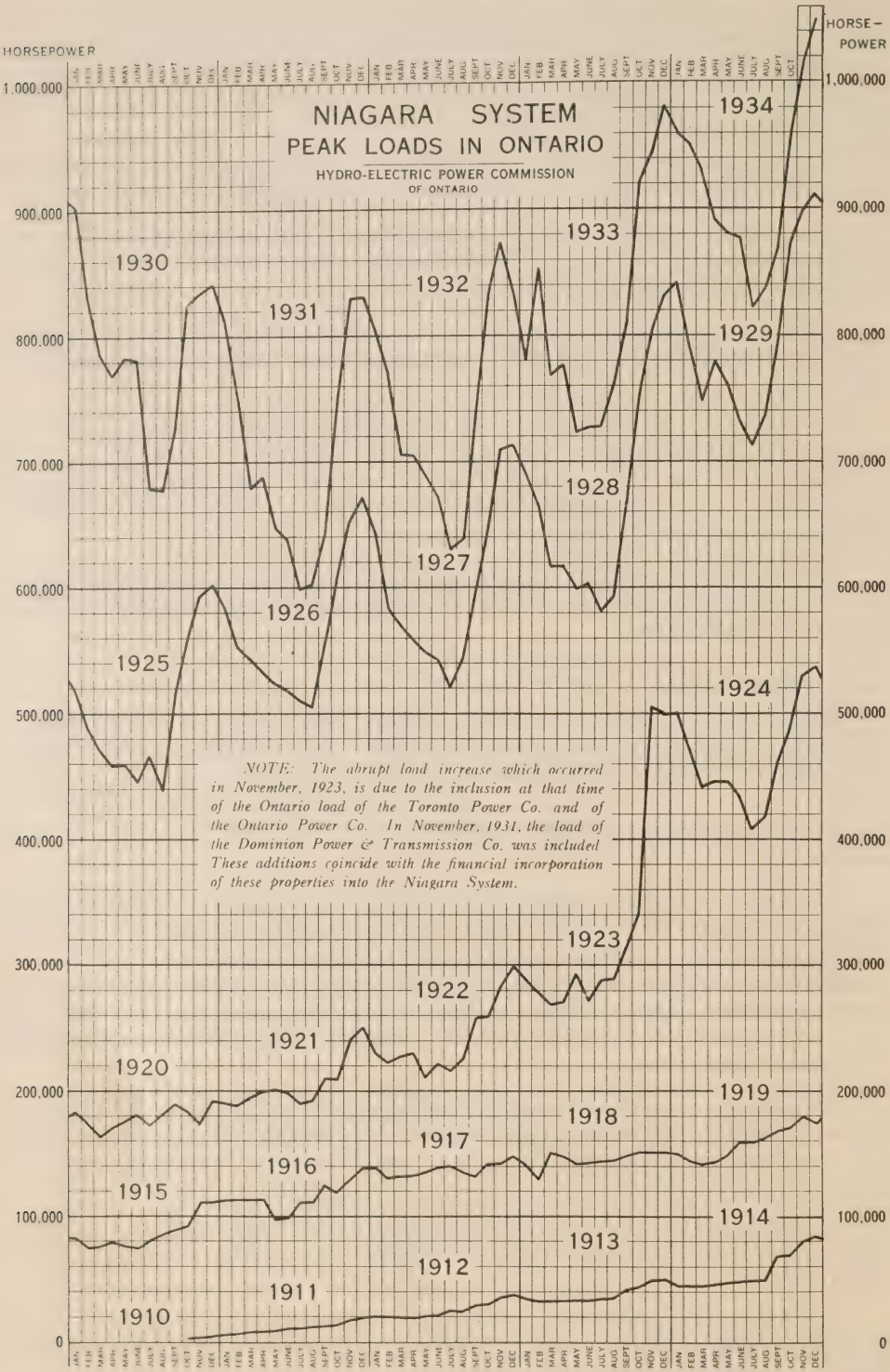
The Toronto Power generating station experienced no difficulties in operation. The plant was loaded quite heavily from the latter part of March to the end of July as a result of emergency repairs to generators and penstock valves in the Ontario Power plant. Inspection and maintenance of the generating units and equipment was carried out in accordance with the regular schedule.

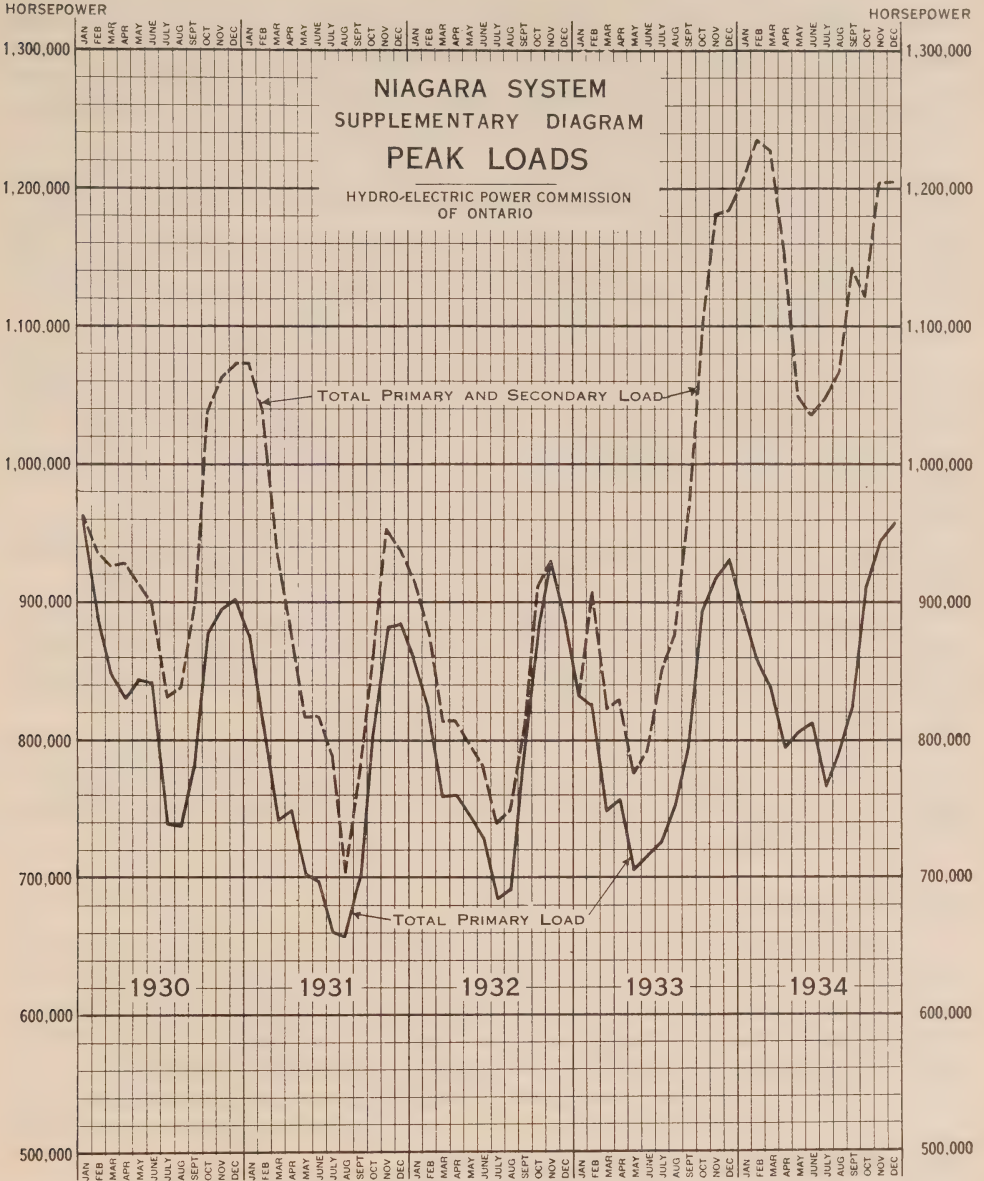
Number 1 unit was removed from service for a general overhaul after being in operation for nineteen years. The top and bottom bearings are being refitted while the turbine runners, draft tube, gates, and top and bottom turbine heads are being built up by electric welding to replace material worn away in service. The bearings on the vertical operating shaft between the turbine and generator are being refitted. This work will not be finished during the present fiscal year.

Repairs were made to the guide bearings on units number 2, 5, 6, 8, 9 and 11, including in most cases a new sleeve and the rebabbitting of the bearings. The turbine-gate operating mechanism was overhauled on units number 9 and 11.

The main tail-race tunnel was unwatered during the summer for inspection, and a crack in the brick floor caused by the pressure of the side walls, was repaired.

On March 18, a 6,000-kv-a. transformer in the transformer station failed in service. This unit, and one 2,670-kv-a. transformer, which failed in 1932, have been rebuilt and returned to service.





SUPPLEMENTARY DIAGRAM—NIAGARA SYSTEM PEAK LOADS

Notes

**TOTAL PRIMARY LOAD:** Primary power is power which the Commission is under contractual obligation to supply and for which it is obligated to hold in reserve adequate capacity. The graph above includes only the actual delivery of such power, and does not include the amount by which the primary power contracts exceed actual deliveries

**TOTAL PRIMARY AND SECONDARY LOAD:** Includes, in addition to the primary load, at-will power which the Commission is under no obligation to hold in reserve. Such power has been sold in Ontario and exported to Quebec and the United States. The above graph includes all secondary power and therefore differs from the graph on the opposite page which shows only the load in Ontario



### Chats Falls Station—Ottawa River

The station has been in continuous service throughout the year, the only major trouble being the failure of a 13,200-volt generator cable in the latter part of January. This has been replaced. The failure of this cable did not interfere with the output of the plant. All inspection and routine maintenance work was carried out in accordance with the regular schedule.

The draft tubes of units 2, 3, 4 and 5 were unwatered for the first time during the summer. They were in good condition and no evidence of excessive wear was found on the turbine runners which were also examined. Unwatering the draft tubes has been made easier by the installation of spring rollers on the tail-race gates, the pressure exerted by these springs eliminates the excessive leakage which previously occurred around the gate seal.

As a result of an abnormal deficiency in precipitation over the whole of the Ottawa river watershed during the summer and fall months of 1933, there was a very low stream flow from November until early in April. The minimum river flow occurred during March with approximately 14,000 c.f.s., while on May 11, during the spring flood a flow of approximately 155,000 c.f.s. occurred.

During the major portion of the year the plant was used for system frequency and time control on the "green" section of the Niagara system.

Extreme winter conditions, with long periods of low temperatures, were experienced in this district, the total snowfall being reported as 110 inches. In order to keep the railway spur open to traffic a snow-plow and spreader were constructed for use with the locomotive crane.

On July 1, 1934, delivery was taken of the second block of contract power from the McLaren-Quebec Power Company at Masson. Delivery of the third block of power from the Beauharnois Light, Heat and Power Company began on October 1, 1934.

### DeCew Falls Station

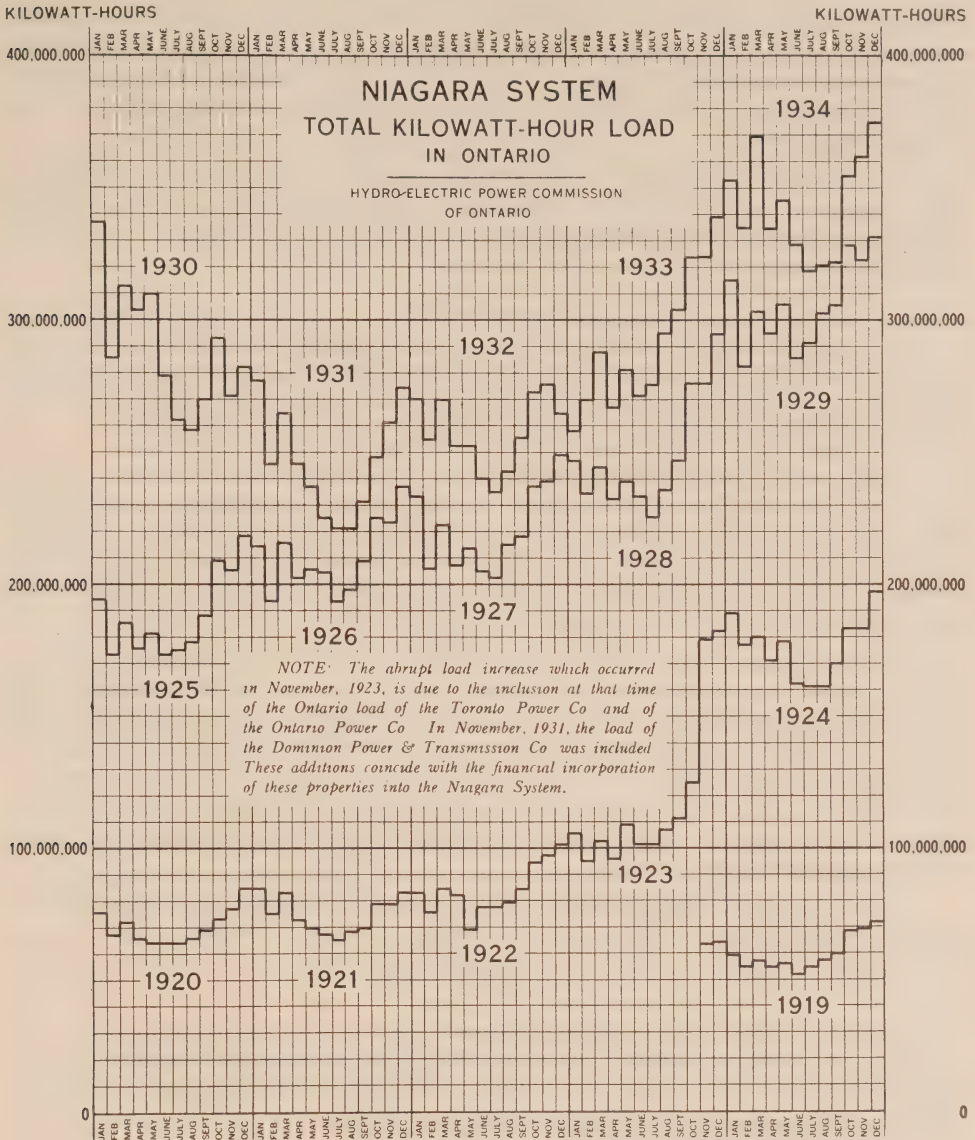
The plant operated continuously throughout the year with no interruptions to service or reductions in power from station causes, full use being made of the water allotment to this station. There were no break-downs of station equipment, and no serious ice difficulties during the severe winter. Regular inspection and repairs were carried out according to schedule.

The penstock, feeding number 9 unit, was cleaned and painted during the year. This completed the painting of all penstocks. The turbine relief valves were rebuilt on number 5 and number 7 units.

The 25-cycle power supply for the frequency-changer station in the Canadian Niagara transformer station, was taken from the Commission's Toronto Power generating station, the agreement with the Canadian Niagara Power Company having terminated on December 31, 1933.

### Dominion Power Steam Station—Hamilton

The steam plant in Hamilton was maintained during the year as a standby for the DeCew Falls plant and frequency-changer station at Niagara Falls, but as there were no interruptions it was not called into service.



The boiler plant was used for the generation of steam for commercial purposes. The plant-efficiency and station-heat balance were improved during the year by the installation of an electrically-driven boiler feed pump. The burning of coke-breeze, mixed with bituminous coal, has been continued during the year. Owing to the extremely low water level of Lake Ontario, it was found necessary to dredge the condenser circulating-water intake in order to remove the accumulation of sludge and restore the channel to its original depth.

The stator of number 2 turbine-generator unit, which was damaged by a short circuit and fire in February 1932, was rewound and the field repaired.

While this work was being done the steam turbine was dismantled, cleaned and readjusted. No major work was found necessary. The unit was re-assembled and restored to service in January, 1934. Following the repair of this machine, this unit with the turbine disconnected has been operated continuously for voltage regulation.

The turbine of number 3 boiler feed-pump was completely re-bladed. Refinements in steam-metering equipment were installed, and the routine boiler inspection and maintenance work called for by government regulations were carried out.

### Transmission

The 220,000-volt lines transmitting power from the Beauharnois, Masson and Pagan plants in Quebec, to the Chats Falls (Ottawa river) interswitching station, and thence to Toronto (Leaside), gave satisfactory service and no difficulties were experienced in their operation or maintenance.

There were two total interruptions of the three circuits between Chats Falls and Toronto. These were caused by lightning and resulted in disturbances to service in Toronto, and west as far as Hamilton. There were eleven single-circuit outages on this system, ten of which were caused by lightning and one by fog. The above disturbances caused no damage to the lines or equipment, and their immediate return to service was possible.

On the three circuits between Hastings interswitching station and the Ottawa river, the inspection of towers, ground wire and conductors, was started during the latter part of 1934. This work which includes the tightening of all bolts, and the installation of a special lock nut in certain locations to prevent loosening by vibration, is about 50 per cent completed. Approximately 4,400 acres of land, under and along these circuits, were underbrushed during the year, and in order to facilitate the work of patrolmen, some ten miles of patrol roads were constructed.

There were no complete interruptions on the 110,000-volt transmission system during the year. There were, however, two interruptions on one group and one interruption on another of the three individual groups comprising this system.

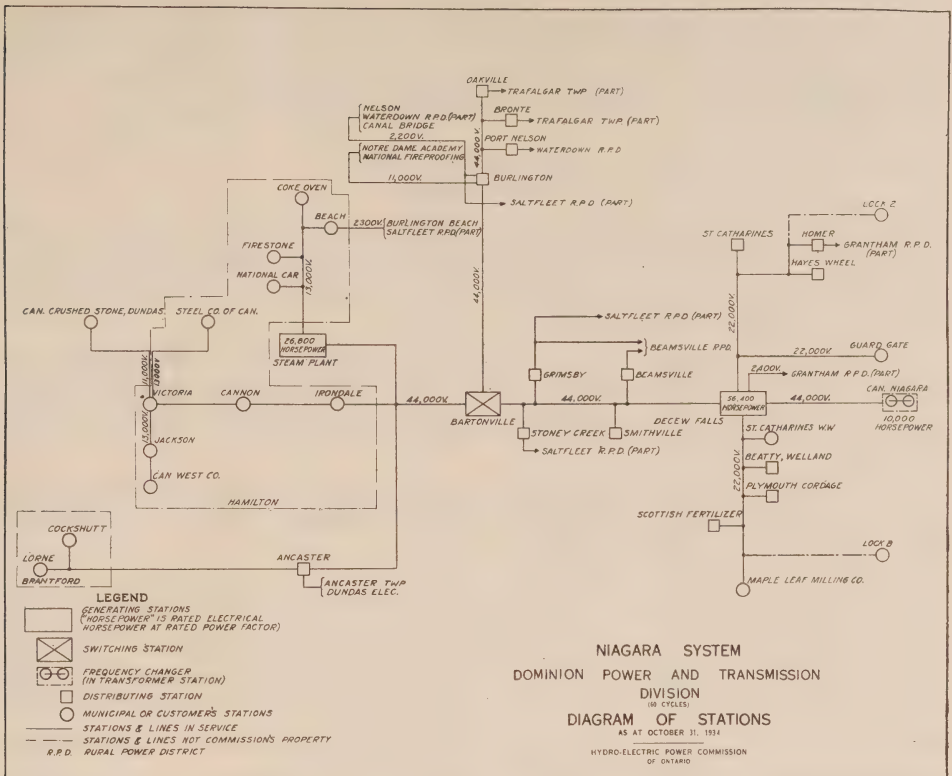
Regular patrol and maintenance was carried out on the 110,000-volt system, insulators were tested on 403 miles of line and defective units removed, painting of the McGuigan-type towers, which was started some years ago, was completed, and on the line between St. Thomas and St. Clair the ground wire connections were renewed.

The Commissions' private telephone lines were regularly patrolled, and general maintenance carried on. A short piece of new line was constructed from the Niagara-Dundas circuits along the canal to DeCew Falls generating station.

On the Dominion Power transmission lines there were no total interruptions, although there were three instances in which service to Hamilton, Brantford, Oakville and vicinity was affected by direct lightning strokes on the 44,000-volt lines.

A visual inspection was made of all insulators in the 44,000-volt lines and a partial inspection of insulators on the 24,000-volt circuits; the defective units being changed. The "A" frame steel towers carrying the 44,000-volt circuits





from the DeCew Falls plant to Bartonville interswitching station were cleaned and painted during the year. At the same time the steps were removed from the towers, the foot bolts tightened, and the footings painted.

### Transformation

The operation of the Leaside 220,000-volt transformer station was generally satisfactory. One case of serious trouble, namely, the failure of number 2 synchronous condenser, occurred on October 31, while the condenser was being put on the line for a mechanical test. The armature winding was completely destroyed and some of the associated switchgear was damaged.

On the 110,000-volt system a 5,000-kv-a. transformer in service at London failed. This unit was under repair at the end of the fiscal year. There was a failure of a 1,250-kv-a. transformer at St. Thomas, caused by a short circuit in the leads of the terminal boards. During routine inspection, a 1,250-kv-a. transformer at Preston was found with defective bracing. This unit, and another of similar type, were removed from service and rebuilt.

The core bracing on a number of 5,000-kv-a. transformers was inspected and tightened, and a new station service bank installed at Bridgman-Davenport station.

Two complete inspections were carried out on all outdoor breakers, and one on indoor breakers. All units were adjusted, and repairs made where necessary. The 110,000-volt electrolytic lightning arresters at Brant, Woodstock, London and St. Thomas were completely overhauled.

### Distribution

New low-tension distributing stations were put in service during the year at the Provincial Paper Company (steam), Interlake Tissue Mills (steam), Louth and Ringwood, and the transformer capacity at the Empire Cotton distributing station was increased.

There were ten failures of low-tension transformers. Three of these were rebuilt, and two are undergoing repairs by the field maintenance staff. Three units were repaired by the manufacturers, one was scrapped, and one has not been repaired.

All oil breakers were inspected, and repairs and re-adjustments made. The electrolytic lightning arresters at Goderich, Clinton, Seaforth and Mitchell municipal stations were overhauled.

No extensive difficulties were encountered in the operation of the low-tension lines during the year, although the extremely cold weather from the latter part of December to the middle of February, caused a number of interruptions to service by the breaking of conductors in the London, Stratford, Woodstock, St. Thomas, Kent and Essex districts. A sleet storm in March, and wind and rain storms in July, August and September, caused interruptions to service on three occasions in Kent and Essex districts.

The lines in Woodstock, St. Thomas, Brant and York districts were given an extensive general overhauling during the year. The conductors were changed on a number of sections in the St. Thomas area. One area was enlarged and reinsulated for 26,000 volts between London and Lucan. Railway crossings were made standard in St. Thomas and York districts.

Pole preservation work, started last year, which consists of uncovering poles at the ground line, removing decayed wood, and spraying with creosote, was continued during the year, some 20,000 poles being treated.

A new 26,000-volt line between Mount Joy and Ringwood, and a 13,200-volt line from the Provincial Paper Company to the Interlake Tissue Mills, were placed in service during the year.

In the Dominion Power division, the Beatty-Welland substation, which was destroyed by fire last year, was rebuilt and returned to service.

### General

The office at Hamilton, from which the operation and maintenance of the Niagara system was controlled, was discontinued on November 30, 1933. The major portion of the staff and stores was transferred to Toronto, and the balance to a small divisional office at London which superintends the maintenance of lines and stations west of Brant and Kitchener. This change was made to effect a better co-ordination in the operation of the Niagara system as a whole.

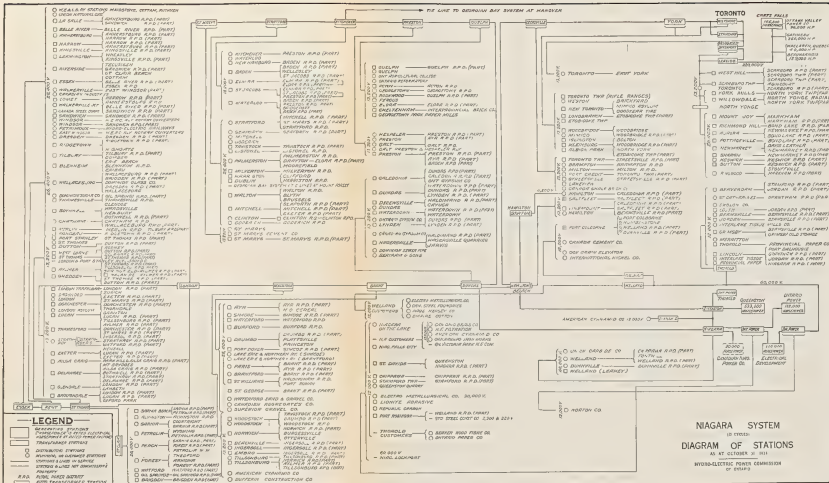
**NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1932-1933-1934**

Municipality	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Acton.....	787.6	832.6	1,044.9		212.3
Agincourt.....	155.2	116.6	128.0		11.4
Ailsa Craig.....	81.5	88.6	77.3	11.3	
Alvinston.....	87.9	82.8	85.6		2.8
Amherstburg.....	661.6	616.6	593.5	23.1	
Ancaster Township.....	284.5	283.8	250.6	33.2	
Arkona.....	52.6	45.4	46.9		1.5
Aurora.....	986.6	1,030.1	981.2	48.9	
Aylmer.....	513.4	469.1	490.6		21.5
Ayr.....	161.1	157.5	157.5		
Baden.....	237.9	241.7	250.2		8.5
Beachville.....	386.6	387.4	376.6	10.8	
Belle River.....	124.6	119.3	126.5		7.2
Blenheim.....	369.9	353.9	383.4		29.5
Blyth.....	101.4	87.4	86.7	0.7	
Bolton.....	118.8	137.7	109.7	28.0	
Bothwell.....	105.2	104.4	99.4	5.0	
Brampton.....	2,168.2	2,075.2	1,991.1	84.1	
Brantford.....	11,637.9	12,728.7	13,212.6		483.9
Brantford Township.....	505.1	605.6	602.3	3.3	
Bridgeport.....	108.4	85.5	118.8		33.3
Brigden.....	88.4	89.1	72.5	16.6	
Brussels.....	132.1	108.8	107.9	0.9	
Burford.....	136.4	115.5	131.3		15.8
Burgessville.....	57.1	54.1	30.5	23.6	
Caledonia.....	320.7	327.7	377.7		50.0
Campbellville.....	26.2	24.2	26.2		2.0
Cayuga.....	119.9	112.6	111.2	1.4	
Chatham.....	4,285.0	4,258.1	4,587.7		329.6
Chippawa.....	218.0	215.3	258.4		43.1
Clifford.....	58.1	61.5	61.9		0.4
Clinton.....	408.8	374.5	394.7		20.2
Comber.....	158.1	164.0	191.7		27.7
Cottam.....	62.7	58.0	64.3		6.3
Courtright.....	39.4	38.4	40.2		1.8
Dashwood.....	65.9	40.0	37.9	2.1	
Delaware.....	41.5	35.1	39.9		4.8
Dorchester.....	67.0	95.7	76.1	19.6	
Drayton.....	99.4	86.7	91.1		4.4
Dresden.....	286.1	280.0	288.9		8.9
Drumbo.....	67.7	66.3	66.5		0.2
Dublin.....	34.2	42.9	31.7	11.2	
Dundas.....	1,138.0	1,276.1	1,329.1		53.0
Dunnville.....	797.1	907.7	853.3	54.4	
Dutton.....	237.4	211.9	209.2	2.7	
East Windsor.....	2,450.4	2,277.4	2,530.8		253.4
Elmira.....	646.1	557.6	544.2	13.4	
Elora.....	384.7	291.4	295.3		3.9
Embro.....	83.8	104.5	88.2	16.3	
Erieau.....	70.7	72.6	62.7	9.9	



## NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1932-1933-1934—Continued

Municipality	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Erie Beach.....	8.0	6.4	11.9		5.5
Essex.....	336.4	361.9	340.5	21.4	
Etobicoke Township.....	3,361.9	3,621.4	4,194.3		572.9
Exeter.....	424.9	382.0	396.8		14.8
Fergus.....	652.5	705.0	833.7		128.7
Fonthill.....	138.5	133.2	138.1		4.9
Forest.....	332.1	320.6	337.8		17.2
Galt.....	6,071.1	5,858.7	5,615.8	242.9	
Georgetown.....	902.7	978.3	987.9		9.6
Glencoe.....	170.8	163.7	164.9		1.2
Goderich.....	970.5	991.9	938.3	53.6	
Granton.....	90.4	96.5	102.1		5.6
Guelph.....	7,710.5	7,812.3	8,207.0		394.7
Hagersville.....	1,046.9	418.2	810.2		392.0
Hamilton.....	76,409.6	83,832.3	87,983.6		4,151.3
Harriston.....	289.2	247.2	269.7		22.5
Harrow.....	332.1	332.7	387.4		54.7
Hensall.....	150.4	121.6	145.1		23.5
Hespeler.....	1,864.9	1,879.7	1,713.8	165.9	
Highgate.....	61.6	69.0	90.3		21.3
Humberstone.....	324.4	386.7	367.8	18.9	
Ingersoll.....	1,870.0	1,969.0	1,860.4	108.6	
Jarvis.....	178.7	150.1	158.7		8.6
Kingsville.....	420.9	431.6	420.9	10.7	
Kitchener.....	14,874.6	15,000.6	16,469.5		1,468.9
Lambeth.....	99.6	94.9	109.2		14.3
La Salle.....	211.5	199.0	192.1	6.9	
Leamington.....	1,112.6	1,327.0	1,253.3	73.7	
Listowel.....	906.1	808.3	811.0		2.7
London.....	29,437.4	30,201.2	30,281.0		79.8
London Township Voted Area.....	371.4	358.5	410.6		52.1
Long Branch.....	736.0	733.9	733.9		
Lucan.....	134.0	136.0	131.0	5.0	
Lynden.....	74.5	66.3	69.8		3.5
Markham.....	249.3	211.8	236.2		24.4
Merlin.....	94.7	66.7	74.0		7.3
Merritton.....	2,737.3	2,765.1	3,140.4		375.3
Milton.....	597.1	804.4	527.6	276.8	
Milverton.....	311.4	295.6	252.0	43.6	
Mimico.....	2,211.8	2,218.5	2,347.1		128.6
Mimico Asylum.....	65.0	100.0	100.0		
Mitchell.....	422.2	433.8	411.5	22.3	
Moorefield.....	58.2	45.5	45.5		
Mount Brydges.....	92.7	79.6	93.8		14.2
Newbury.....	43.4	40.6	41.5		0.9
New Hamburg.....	470.2	399.1	393.8	5.3	
Newmarket.....	1,380.7	1,285.5	1,273.4	12.1	
New Toronto.....	4,766.7	4,790.8	5,565.7		774.9
Niagara Falls.....	8,774.0	9,135.6	8,665.9	469.7	
Niagara-on-the-Lake.....	548.8	546.1	559.0		12.9







## NIAGARA SYSTEMS—LOADS OF MUNICIPALITIES, 1932-1933-1934—Continued

Municipality	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Norwich.....	335.1	308.3	304.9	3.4	
Oil Springs.....	172.7	159.3	179.8		20.5
Ontario Agricultural College.....	427.6	469.1	485.2		16.1
Ontario Central Reformatory.....	249.3	243.9	256.7		12.8
Otterville.....	77.7	84.3	92.9		8.6
Palmerston.....	458.5	437.5	396.0	41.5	
Paris.....	1,178.4	1,197.2	1,132.8	64.4	
Parkhill.....	131.3	124.2	128.9		4.7
Petrolia.....	761.7	685.8	677.8	8.0	
Plattsville.....	53.3	60.2	52.2	8.0	
Point Edward.....	689.0	636.7	467.8	168.9	
Port Colborne.....	1,407.5	1,420.9	1,422.2		1.3
Port Credit.....	549.3	611.2	668.5		57.3
Port Dalhousie.....	439.7	503.7	502.7	1.0	
Port Dover.....	315.6	296.5	297.8		1.3
Port Rowan.....	73.0	67.1	64.3	2.8	
Port Stanley.....	228.5	261.5	240.1	21.4	
Preston.....	2,560.3	2,461.1	2,341.4	119.7	
Princeton.....	103.2	98.8	85.9	12.9	
Queenston.....	83.5	80.7	112.8		32.1
Richmond Hill.....	297.0	293.1	304.3		11.2
Ridgetown.....	439.7	446.4	397.7	48.7	
Riverside.....	1,200.6	1,104.9	1,073.0	31.9	
Rockwood.....	104.5	89.8	92.5		2.7
Rodney.....	145.7	131.1	121.9	9.2	
St. Catharines.....	7,872.8	7,854.2	8,852.4		998.2
St. Clair Beach.....	90.7	72.6	57.6	15.0	
St. George.....	147.4	129.3	138.8		9.5
St. Jacobs.....	152.8	151.4	146.9	4.5	
St. Marys.....	1,501.8	1,225.7	1,259.2		33.5
St. Thomas.....	5,761.4	6,179.6	5,986.5	193.1	
Sandwich.....	2,996.4	2,956.2	2,743.0	213.2	
Sarnia.....	7,360.6	7,581.1	7,397.9	183.2	
Scarboro Township.....	3,124.6	2,981.5	3,099.2		117.7
Seaforth.....	465.3	408.8	485.7		76.9
Simcoe.....	1,546.1	1,613.9	1,705.2		91.3
Springfield.....	65.6	59.0	60.0		1.0
Stamford Township.....	1,859.8	1,819.0	1,913.0		94.0
Stouffville.....	204.1	167.9	183.3		15.4
Stratford.....	7,180.2	6,530.9	6,562.9		32.0
Strathroy.....	910.2	946.4	920.9	25.5	
Sutton.....	152.7	153.5	147.8	5.7	
Tavistock.....	496.0	424.6	444.5		19.9
Tecumseh.....	302.2	294.7	290.0	4.7	
Thamesford.....	158.8	159.5	176.2		16.7
Thamesville.....	171.0	163.5	165.7		2.2
Thedford.....	57.6	127.0	143.0		16.0
Thorndale.....	40.6	36.4	37.8		1.4
Thorold.....	1,956.4	1,914.6	1,782.1	132.5	
Tilbury.....	366.6	398.1	331.1	67.0	

## NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1932-1933-1934—Concluded

Municipality	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Tillsonburg.....	891.0	900.1	843.1	57.0	
Toronto.....	280,795.0	269,144.8	280,525.4		11,380.6
Toronto Township.....	1,868.0	1,793.7	1,936.7		143.0
Walkerville.....	5,454.7	5,336.4	6,132.7		796.3
Wallaceburg.....	1,252.0	1,888.7	1,821.6	67.1	
Wardsville.....	35.4	34.3	32.7	1.6	
Waterdown.....	191.7	201.0	196.2	4.8	
Waterford.....	406.8	399.4	322.4	77.0	
Waterloo.....	2,660.8	2,668.9	2,729.2		60.3
Watford.....	186.3	185.0	192.5		7.5
Welland.....	3,576.4	3,918.2	3,758.7	159.5	
Wellesley.....	97.7	94.7	95.2		0.5
West Lorne.....	105.9	98.6	97.0	1.6	
Weston.....	2,453.1	2,790.8	2,706.4	84.4	
Wheatley.....	143.1	123.7	117.1	6.6	
Windsor.....	23,029.9	20,550.3	19,979.4	570.9	
Woodbridge.....	247.9	261.4	304.7		43.3
Woodstock.....	4,785.5	4,950.4	4,731.9	218.5	
Wyoming.....	64.6	75.2	65.8	9.4	
York, East, Township.....	5,504.0	5,330.7	5,656.4		325.7
York, North, Township.....	2,829.7	2,890.0	3,188.8		298.8
Zurich.....	76.4	64.8	71.4		6.6

## NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1932-1933-1934

Rural power district	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Acton.....	10.0	10.0	10.0		
Ailsa Craig.....	5.6	5.6	5.6		
Alvinston.....	3.2	3.2	3.1	0.1	
Amherstburg.....	533.7	496.7	412.0	84.7	
Aylmer.....	294.4	291.1	317.5		26.4
Ayr.....	42.5	42.5	42.5		
Baden.....	398.6	367.1	378.2		11.1
Beamsville.....	1,061.1	1,030.7	1,043.7		13.0
Belle River.....	254.9	220.0	172.3	47.7	
Blenheim.....	143.6	118.5	144.2		25.7
Bond Lake.....	897.2	926.4	999.2		72.8
Bothwell.....	115.6	89.0	99.4		10.4
Brampton.....	133.3	130.0	132.7		2.7
Brant.....	464.9	434.4	490.4		56.0
Brigden.....	38.0	31.5	35.2		3.7
Burford.....	155.9	170.5	148.0	22.5	
Caledonia.....	322.0	300.5	323.2		22.7
Chatham.....	441.3	473.5	479.2		5.7
Chippawa.....	102.2	99.2	122.5		23.3
Clinton.....	125.2	121.7	122.6		0.9

## NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1932-1933-1934—Continued

Municipality	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Delaware.....	265.3	299.5	285.8	13.7	
Dorchester.....	329.4	269.2	312.0		42.8
Dresden.....	34.6	42.2	43.3		1.1
Drumbo.....	79.2	59.0	95.4		36.4
Dundas.....	578.3	582.6	695.7		113.1
Dunnville.....	42.0	42.0	39.0	3.0	
Dutton.....	122.8	126.0	127.3		1.3
Elmira.....	79.6	70.2	79.7		9.5
Elora.....	105.7	98.2	104.2		6.0
Essex.....	201.0	189.6	199.6		10.0
Exeter.....	245.5	235.3	252.7		17.4
Forest.....	28.0	28.0	28.0		
Galt.....	197.9	181.3	184.7		3.4
Georgetown.....	134.8	124.9	132.7		7.8
Goderich.....	84.0	84.2	84.2		
Grantham Township.....	527.1	611.1	630.1		19.0
Guelph.....	415.5	411.5	434.1		22.6
Haldimand.....	240.0	164.0	200.6		36.6
Harriston.....	23.9	20.0	16.6	3.4	
Harrow.....	345.1	323.6	286.8	36.8	
Ingersoll.....	329.8	337.8	369.7		31.9
Jordan.....	320.0	282.0	324.8		42.8
Keswick.....	381.6	395.8	350.0	45.8	
Kingsville.....	545.8	453.5	500.3		46.8
Listowel.....	131.9	132.7	140.2		7.5
London.....	1,509.0	1,523.7	1,559.0		35.3
Lucan.....	64.6	60.2	52.0	8.2	
Lynden.....	177.2	166.5	173.2		6.7
Markham.....	453.0	423.8	407.3	16.5	
Merlin.....	175.2	177.5	167.0	10.5	
Milton.....	128.2	140.0	181.6		41.6
Milverton.....	69.5	65.5	84.3		18.8
Mitchell.....	187.8	172.2	185.0		12.8
Newmarket.....	255.7	225.3	267.1		41.8
Niagara.....	434.5	395.9	527.0		131.1
Norwich.....	202.3	241.3	252.3		11.0
Oil Springs.....	44.9	45.5	39.9	5.6	
Palmerston.....	37.5	48.0	54.7		6.7
Petrolia.....	25.3	25.3	25.3		
Preston.....	848.2	854.7	830.2	24.5	
Ridgetown.....	260.8	227.9	258.8		30.9
St. Jacobs.....	218.5	268.8	239.5	29.3	
St. Marys.....	210.4	183.8	194.6		10.8
St. Thomas.....	469.3	483.2	629.4		146.2
Saltfleet.....	1,029.9	966.1	962.1	4.0	
Sandwich.....	1,001.9	908.0	940.6		32.6
Sarnia.....	466.4	485.3	491.1		5.8
Scarboro.....	296.6	358.4	371.7		13.3
Seaforth.....	47.8	53.2	53.7		0.5
Simcoe.....	231.0	205.4	229.1		23.7



## NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1932-1933-1934—Concluded

Municipality	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Stamford.....	185.1	156.5	194.3	.....	37.8
Stratford.....	164.9	104.6	116.9	.....	12.3
Strathroy.....	95.0	93.2	109.6	.....	16.4
Streetsville.....	324.3	251.1	318.4	.....	67.3
Tavistock.....	194.4	153.6	169.7	.....	16.1
Thamesville.....	100.9	108.6	97.9	10.7	.....
Tilbury.....	119.4	134.6	122.0	12.6	.....
Tillsonburg.....	302.4	314.4	324.9	.....	10.5
Wallaceburg.....	179.8	173.1	193.0	.....	19.9
Walsingham.....	150.8	144.3	182.0	.....	37.7
Walton.....	70.7	82.8	63.7	19.1	.....
Waterdown.....	906.5	676.2	763.1	.....	86.9
Waterford.....	158.2	174.9	218.2	.....	43.3
Watford.....	16.4	22.0	25.7	.....	3.7
Welland.....	1,161.8	1,079.1	1,083.6	.....	4.5
Woodbridge.....	550.0	537.9	512.9	25.0	.....
Woodstock.....	487.4	483.3	512.8	.....	29.5

GEORGIAN BAY SYSTEM

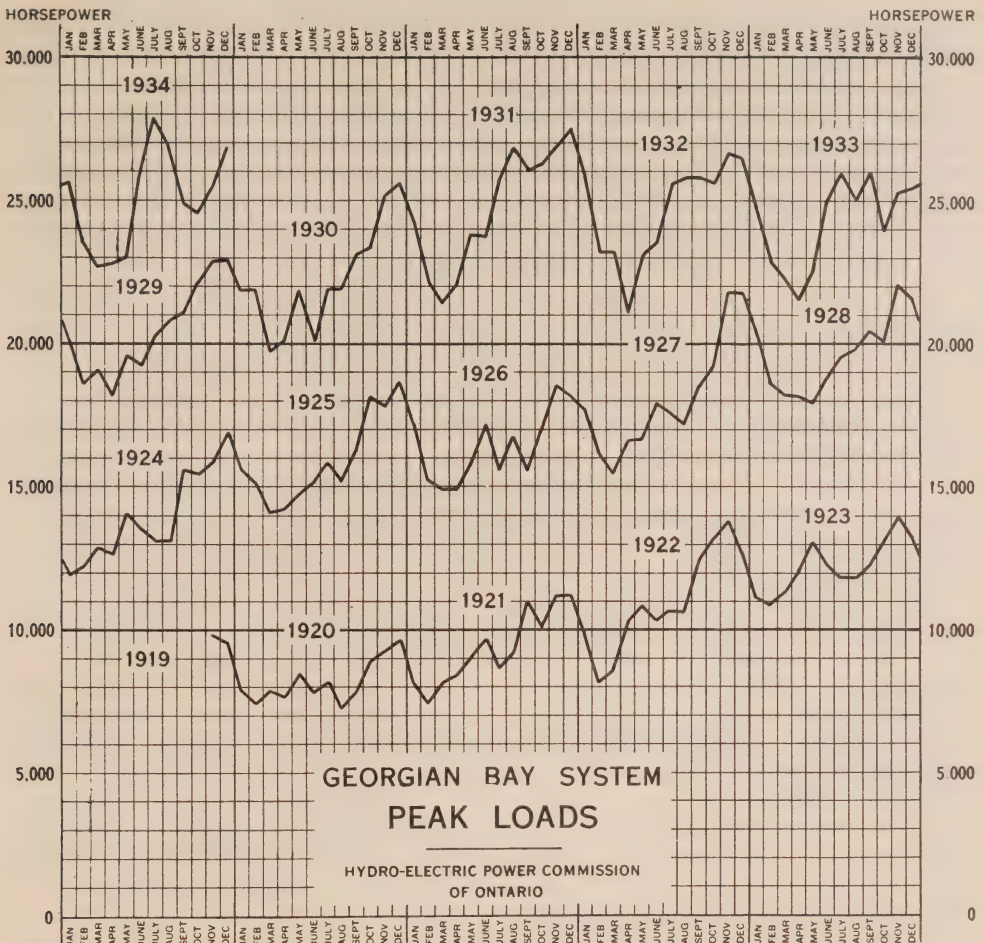
The Georgian Bay system peak load increased nearly five per cent over the peak last year and the average load about six per cent. This increase is not a result of unusual activity in one or two municipalities only, but is due to general improvement throughout the system.

Storage water reserves in this system have been reasonably well maintained by supplying, through the Hanover frequency-changer set, a large amount of power from the Niagara system. It is necessary to maintain water levels, for navigation, in Lake of Bays and lakes Couchiching and Simcoe, and these lakes supply the greater part of the storage water reserves for use in this system. The regulation of these lakes is not under the jurisdiction of the Commission.

Power was supplied to the Orillia Water, Light and Power Commission in November and June, also from August until October, because, due to reduced flows in the Severn river and to equipment being out of service for repairs, the Orillia Commission's plant at Swift rapids was unable to carry the total Orillia load.

Generating Stations

At Eugenia Falls generating station all oil-circuit breakers and electrolytic lightning arresters were overhauled. The No. 1 Johnson valve was dismantled, and new monel metal rings were installed and welded in place in the body and nose of the casing and plunger. The old wood section of No. 1 pipe line was replaced by a complete new wood-stave pipe of approximately 3,275 feet in length. The erection of the new wood-stave section was completed and No. 1 pipe line returned to service October 1.



**NOTE:**—The Georgian Bay system includes the Severn, Eugenia, Wasdells, Muskoka and Bala districts. In the diagram the load for the Muskoka district is not included until November, 1924. Details respecting this load for preceding years are given in earlier annual reports. The load of the new district at Bala is not included in above graph until April, 1931, previous meter records being incomplete.

Hanover generating station has been operated about twelve hours per day for the greater part of the year by the operators at the near-by Hanover frequency-changer station.

Southampton generating station was not operated. Tests and repairs considered necessary to keep the equipment in a safe condition were made and the plant is available for service when required.

At Walkerton generating station new timber headgates were built and installed at the entrance to the headrace canal. Minor adjustments and repairs were made to the turbines and the plant was maintained in good working order.

At Hanover frequency-changer station two 7,500-volt outdoor potheads were badly damaged May 17, by an explosion resulting from a failure of the cable between the indoor and outdoor 4,400-volt buses. New potheads were installed.

At Big Chute generating station, a new and larger brake drum was installed on No. 4 unit.

At South Falls generating station, No. 1 and No. 3 turbines were inspected. Indicating lamps were installed to indicate failure of direct-current service in Trethewey Falls generating station and failure of generator lubricating oil pressure in Hanna Chute generating station. An examination of the concrete in the dam revealed a bad crack in the third pier from the north, also spalling and cracking of the concrete around the stop-log check angle irons. Repairs were made by bolting two heavy timbers to the pier.

At Hanna Chute generating station, the gear-driven oil pump for circulating lubricating oil through the generator bearings, which, due to wearing of the gear teeth, had given trouble from time to time, was replaced with a separate automatically controlled motor-driven unit.

At Trethewey Falls generating station repairs were made to the shallow spillwall section of the dam.

At Bala No. 1 generating station, three 2,300-volt lightning arresters on Bala feeder were destroyed by lightning and were replaced. No. 2 generator was damaged by lightning on two occasions and it was necessary to replace fifteen armature coils.

At Bala No. 2 generating station, a broken turbine gate was replaced. The timber deck beams over the intake were replaced with steel beams.

#### **Transformer and Distributing Stations**

At Hanover distributing station, in preparation for a test run, assistance was given to the Hanover Public Utilities Commission in drying out its synchronous condenser.

At Orangeville distributing station a 250-kv-a. single-phase transformer failed July 12, following severe lightning storms. This transformer was shipped to Toronto for repairs. One of the 25,000-volt lightning arresters which was destroyed by lightning was replaced.

At John E. Russell Co. distributing station the low-voltage bus was removed and a new bus erected using larger conductor as the old bus had given evidence of being overheated. Two of the transformers were given a general overhaul by removing the cores and scraping all deposits from the winding and ventilating ducts.

At Alliston distributing station the 75-kv-a. transformer was damaged by lightning July 30. Repairs were made at the manufacturer's factory and the transformer was returned to service September 1.

At Wasdells auto-transformer station, the surge absorbers were replaced with a new type. A 44,000-volt oil circuit-breaker bushing and a 44,000-volt air-insulated current transformer failed during the year. The bushing was replaced and the current transformer was repaired at the Commission's Production and Service department, Toronto.

Sixteen municipalities were assisted with the operation of their local distribution systems on thirty-six occasions.

#### **Transmission Lines**

To ensure continuity of service to the important area comprising Midland and adjacent district, the 22,000-volt lines between Waubaushene and Midland



were rebuilt and some new lines constructed. Formerly there were two lines from Waubauskene to Midland which were built by the Simcoe Railway and Power Company in 1909 and purchased by the Commission in 1914. A third line was built from Waubauskene in 1928, ending at the short tap line from Tiffin Elevator junction to Tiffin elevator. The two old circuits between Waubauskene and the Wye river were taken down and rebuilt into one new circuit. From the Wye river a new pole line was built paralleling the former No. 3 line to where it terminated, and a new double-circuit line was constructed from this point to Aberdeen Elevator junction, where it was connected to the former No. 1 and No. 2 lines.

The right-of-way from Waubauskene to Big Chute generating station and from Big Chute generating station to Bala was cleared.

To conform with specifications of the Board of Railway Commissioners for Canada, the power lines at railway and telephone crossings were reinforced between Eugenia generating station and Collingwood, between Hanover and Chesley, and between Kilsyth and Southampton.

Due to changes in highway location, extensive alterations to the line between Dundalk and Flesherton were necessary. It was also necessary to move or lower a number of poles at Eugenia village and between Stayner and Creemore due to highway work.

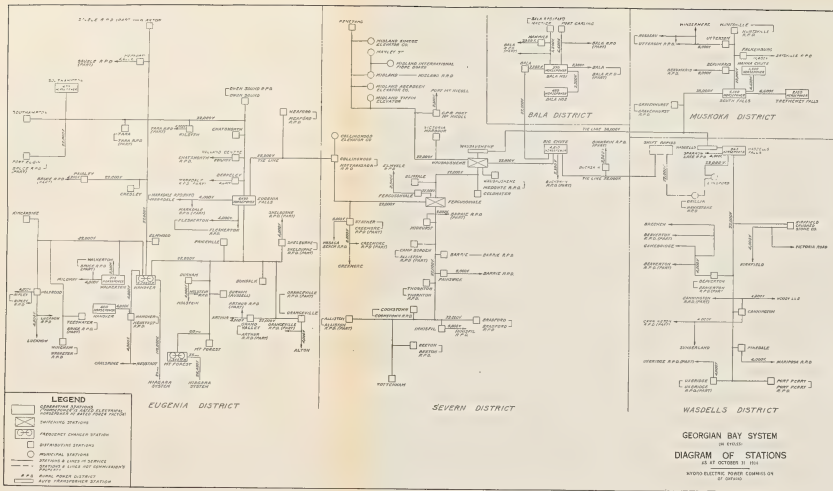
Over the whole system 58 defective poles were replaced, 427 poles were reinforced by the addition of stubs, and approximately 7,000 poles received preservative treatment at the ground line. Approximately 7,800 defective insulator pins, 2,000 defective insulators and 700 defective crossarms were replaced. There were a number of breaks in power cable and guys during the extremely cold periods experienced last winter; otherwise no serious damage resulted from unusual weather conditions.

#### GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1932-1933-1934

Municipality	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Alliston.....	227.9	198.0	212.3		14.3
Arthur.....	128.9	132.7	136.7		4.0
Bala.....	118.0	120.0	109.0	11.0	
Barrie.....	2,381.1	2,195.6	2,228.3		32.7
Beaverton.....	216.4	179.7	175.0	4.7	
Beeton.....	106.6	114.3	105.7	8.6	
Bradford.....	134.9	140.0	161.9		21.9
Brechin.....	56.3	45.4	47.5		2.1
Camp Borden.....	320.0	263.4	247.0	16.4	
Cannington.....	161.9	152.8	141.2	11.6	
Chatsworth.....	53.2	61.2	53.2	8.0	
Chesley.....	407.5	464.0	423.6	40.4	
Coldwater.....	257.3	234.6	245.3		10.7
Collingwood.....	1,339.9	1,293.8	1,139.1	154.7	
Cookstown.....	59.0	52.9	65.7		12.8

## GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1932-1933-1934—Continued

Municipality	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Creemore.....	121.4	96.0	104.5		8.5
Dundalk.....	148.8	163.0	145.0	18.0	
Durham.....	392.1	712.3	337.2	375.1	
Elmvale.....	147.4	148.8	134.8	14.0	
Elmwood.....	65.1	51.3	63.1		11.8
Flesherton.....	79.8	75.9	87.2		11.3
Grand Valley.....	123.8	108.3	101.2	7.1	
Gravenhurst.....	574.0	672.5	657.4	15.1	
Hanover.....	1,042.9	910.4	966.7		56.3
Hepworth.....	24.1	25.7	26.9		1.2
Holstein.....	18.7	16.6	16.6		
Huntsville.....	1,047.0	955.8	886.9	68.9	
Kincardine.....	407.5	564.3	560.8	3.5	
Kirkfield.....	28.6	22.8	26.9		4.1
Lucknow.....	187.0	222.5	243.9		21.4
Markdale.....	149.4	179.4	152.4	27.0	
MacTier.....	145.0	111.0	122.0		11.0
Meaford.....	394.7	395.4	413.5		18.1
Midland.....	3,345.6	2,408.6	2,709.9		301.3
Mildmay.....	66.7	71.5	74.5		3.0
Mount Forest.....	328.4	329.5	373.7		44.2
Neustadt.....	30.0	34.0	34.8		0.8
Orangeville.....	621.0	585.4	518.8	66.6	
Owen Sound.....	3,338.5	3,077.0	3,205.6		128.6
Paisley.....	114.4	118.6	117.9	0.7	
Penetanguishene.....	561.1	658.7	649.5	9.2	
Port Carling.....	128.0	105.0	70.0	35.0	
Port Elgin.....	201.8	262.5	218.7	43.8	
Port McNicoll.....	90.2	83.5	77.3	6.2	
Port Perry.....	179.8	156.6	209.4		52.8
Priceville.....	16.0	16.7	17.8		1.1
Ripley.....	58.9	60.3	60.3		
Rosseau.....	35.1	30.0	48.3		18.3
Shelburne.....	197.9	192.9	235.0		42.1
Southampton.....	235.9	205.9	242.0		36.1
Stayner.....	203.2	169.3	195.0		25.7
Sunderland.....	63.0	60.0	57.9	2.1	
Tara.....	87.7	82.2	72.4	9.8	
Teeswater.....	114.9	112.4	113.1		0.7
Thornton.....	18.3	17.9	27.6		9.7
Tottenham.....	64.3	62.2	59.9	2.3	
Uxbridge.....	205.8	202.2	209.2		7.0
Victoria Harbour.....	76.4	77.3	65.4	11.9	
Victoria Road.....	10.0	10.0	10.0		
Walkerton.....	419.9	463.1	451.8	11.3	
Waubashene.....	58.3	56.3	38.4	17.9	
Wiarton.....	220.1	232.2	234.9		2.7
Windermere.....	31.0	33.0	24.6	8.4	
Wingham.....	209.3	290.5	371.8		81.3
Woodville.....	61.0	55.2	55.6		0.4







## GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS, 1932-1933-1934

Rural power district	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Alliston.....	107.1	69.3	74.5		5.2
Arthur.....	3.2	3.2	3.2		
Bala.....	61.0	93.0	144.0		51.0
Barrie.....	220.7	233.4	227.4	6.0	
Baysville.....	36.2	45.5	42.9	2.6	
Beaumaris.....	85.8	110.0	112.6		2.6
Beaverton.....	157.3	137.6	131.6	6.0	
Beeton.....	2.0	5.0	5.0		
Bradford.....	46.7	42.8	46.1		3.3
Bruce.....	61.1	103.3	94.7	8.6	
Buckskin.....	13.0	12.0	17.9		5.9
Cannington.....	44.0	35.7	50.5		14.8
Chatsworth.....	10.3	8.9	8.7	0.2	
Cookstown.....	0.8	0.8	0.8		
Creemore.....	56.2	55.0	55.0		
Elmvale.....	72.4	66.3	65.5	0.8	
Flesherton.....	7.3	8.0	7.7	0.3	
Gravenhurst.....	37.2	27.7	26.7	1.0	
Hawkestone.....	84.1	93.4	101.8		8.4
Huntsville.....	20.0	48.2	59.5		11.3
Innisfil.....	162.2	191.7	179.6	12.1	
Mariposa.....	151.4	136.2	142.9		6.7
Markdale.....	20.9	33.4	37.9		4.5
Medonte.....	17.0	21.0	20.0	1.0	
Midland.....	19.0	21.0	22.0		1.0
Nottawasaga.....	30.3	28.1	32.8		4.7
Orangeville.....	33.1	34.9	36.1		1.2
Owen Sound.....	10.0	53.0	37.0	16.0	
Port Perry.....	121.8	141.0	112.0	29.0	
Ripley.....	10.0	10.3	10.3		
Sauble.....	8.8	12.3	9.2	3.1	
Shelburne.....	21.1	29.3	31.1		1.8
Sparrow Lake.....	119.8	124.1	128.7		4.6
Tara.....	54.0	50.0	51.5		1.5
Thornton.....	12.7	16.3	13.1	3.2	
Utterson.....	35.0	43.9	35.0	8.9	
Uxbridge.....	104.5	105.1	97.4	7.7	
Wasaga Beach.....	92.5	114.6	86.0	28.6	
Wroxeter.....	99.5	106.2	106.7		0.5

EASTERN ONTARIO SYSTEM

The pronounced recovery in the load of the Eastern Ontario system which first became apparent during the latter part of April, 1933, continued at approximately the same rate of increase until the end of June, 1934, and, while the rate was somewhat checked in July, an appreciable gain continued until the end of the fiscal year. The system monthly peaks and average loads

have shown a substantial increase over the previous year, and since February the monthly peak loads have exceeded all recorded maximum peak loads for corresponding months in any year. These comments relate to the system primary load.

The fiscal year ended October 31, 1934, is the first year in which there has been a market in the Eastern Ontario system for secondary power. Secondary power was supplied to the Gatineau Power Company on December 6, 1933, and was continued until April 5, 1934, during which period this system disposed of approximately 41,000,000 kilowatt-hours.

With the construction of a new 110,000-volt steel-tower line between Ottawa and Cornwall, a direct supply of Gatineau power was made available to the St. Lawrence district, making it possible to discontinue the supply from the Cedars Rapids Transmission Company. The contract with this Company was cancelled as of December 31, 1933, but was extended, by agreement, as a temporary supply on a month-to-month basis until July 31, 1934. Since this time all power fed into the St. Lawrence district has been supplied from the interconnected system generating sources and the Gatineau Power Company.

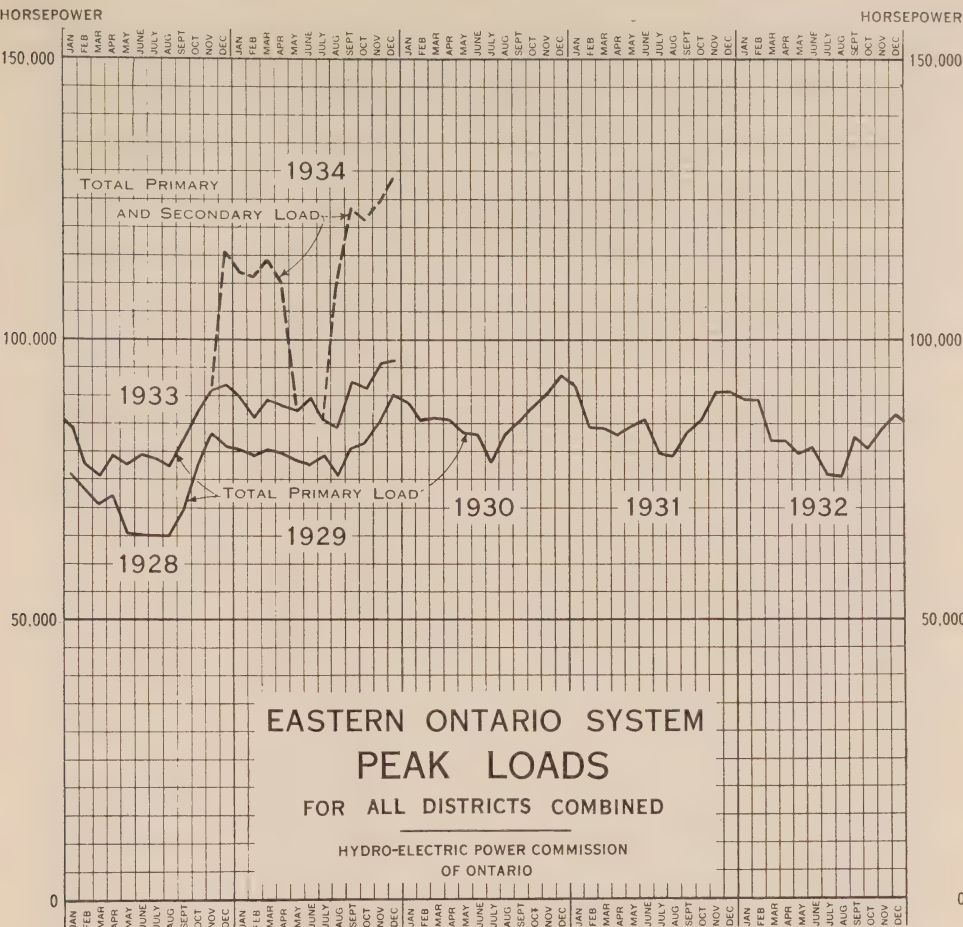
The 110,000-volt Ottawa-Cornwall line was extended to the Howard Smith Paper Company in Cornwall in order to provide a supply of secondary power for steam generation in accordance with an agreement made earlier in the year. The steam generator, with a rated capacity of 20,000 kilowatts was placed in regular service on August 23. The demand on this generator quickly reached its full capacity, and except for normal week-end reductions or inspection shut-downs, the generator has continued to operate at full capacity.

Because of limited stream flow and tie-line capacity, sufficient energy could not be delivered from the Eastern Ontario system sources alone to operate the steam generator at full capacity. Arrangements were therefore made with the Gatineau Power Company, at no additional cost to the Commission, for additional energy under the 60-cycle contract, with a corresponding reduction on the 25-cycle contract. By this arrangement the disposal of a maximum amount of surplus energy was made possible. Up to October 31, the steam generator had taken a total of 28,249,500 kilowatt-hours, of which 15,094,518 kilowatt-hours, or 53 per cent, was derived from Eastern Ontario system sources, and 13,154,982 kilowatt-hours, or 47 per cent, was obtained by transfer from the Niagara system.

It is of interest to note that, on three occasions during periods of low stream flow on the Trent river during the past fiscal year, the weekly average surplus capacity available on the normally interconnected parts of the system in excess of firm load requirements, was limited to less than 5,000 horsepower.

During the year the usual programme of general plant inspection and maintenance work was carried out. With one or two exceptions all turbines were unwatered and inspected, and minor repairs and adjustments made. Whenever possible forebays were unwatered, concrete inspected, and all sunken debris removed. The governors in the various plants were inspected and adjusted. Practically all high-tension oil-breakers on the system were overhauled at least once during the year. Some of the work is outlined in the following paragraphs.





Generating Stations

At Meyersburg, plant No. C-8, due to damage by erosion, extensive welding was carried out on the runner of one turbine, using stainless steel as a final coating.

At Ranney Falls, plant No. C-10, the lignum vitae bearings on both turbines were adjusted, and the head-gate winches were overhauled. The electrolytic lightning arresters on one of the 44,000-volt lines were overhauled, 56 defective cones being replaced.

At Seymour, plant No. C-11, all the main turbines and the exciter turbine were overhauled. On one generator twelve coils which burned out during an electrical storm were replaced.

At Heely Falls, plant No. C-14, and at Auburn, plant No. C-18, the turbines were thoroughly inspected but only minor repairs and adjustments were necessary.

At Fenelon Falls, plant No. C-30, some work was necessary in order to prevent further undermining of the foundation, also, due to undermining of

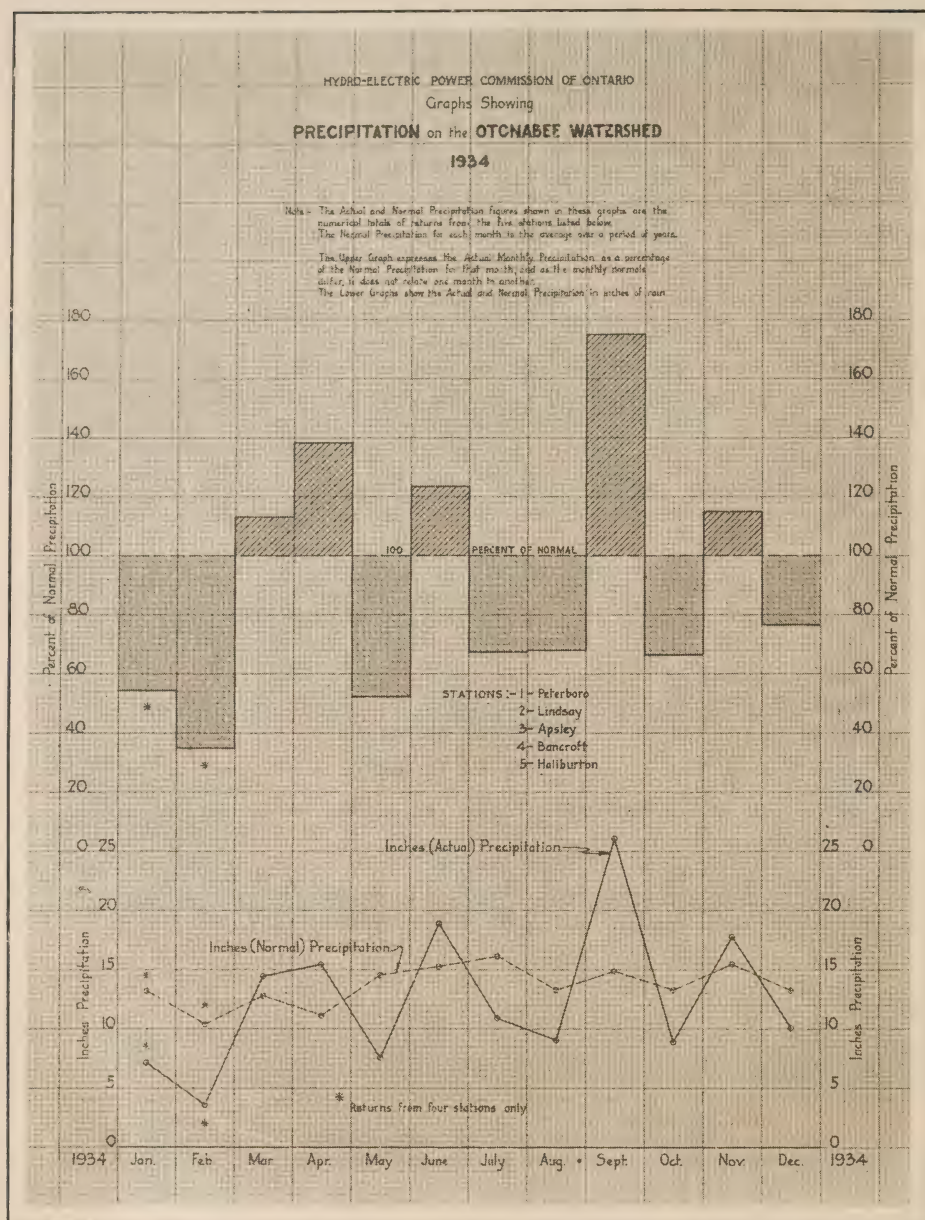


PLATE A—PRECIPITATION DATA—1934

The upper graph represents the estimated actual monthly precipitation on the Otonabee watershed expressed as a percentage of the normal precipitation.

The estimate is based upon the actual and normal return of the Meteorological Service for Peterboro, Lindsay, Bancroft and Haliburton.

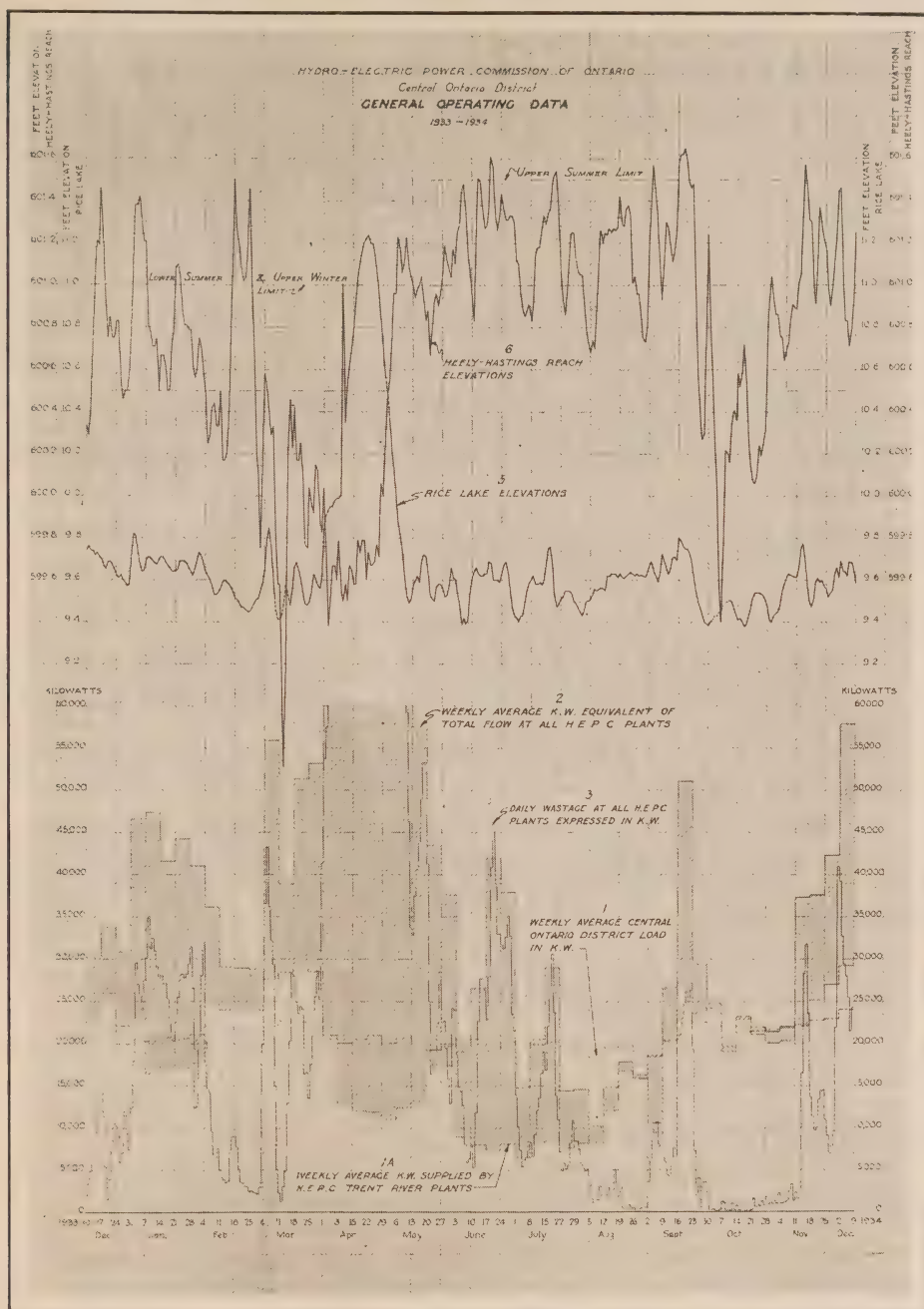
Although the numerical values differ from month to month the normal precipitation is taken as 100 per cent, hence the solidly hatched areas represent the amount by which the precipitation exceeded the average while the dotted hatched area represents in a similar manner the deficiencies.

The lower graph shows the actual and normal precipitation in inches of rain.

Graph No. 3 Average daily wastage at all H-E.P.C. plants. In the weekly aggregate the area under this graph equals the wastage represented by the dotted hatched area between curves 2 and 1a.

Graph No. 5—Midnight elevations of Rice Lake.

Graph No. 6—Midnight elevations of Heely-Hastings reach.



### PLATE B—GENERAL OPERATING DATA

December 10, 1933, to December 9, 1934  
Notes for Eastern Ontario District General Operating Data Curves

- Graph No. 1—System average weekly load in kilowatts which includes power purchased from the Gattineau Power Company.
- Graph No. 1a—Weekly average load in kilowatts supplied by H.E.P.C. plants on the Trent and Otonabee rivers.
- Graph No. 2—Weekly average power equivalent of total flow at all H.E.P.C. Plants. This equals the weekly average load supplied by these plants, plus the power equivalent of the weekly average wastage at these plants. This wastage is shown by the dotted hatched area between curves 2 and 1a.

(Explanation continued on page 36, facing)



the floor, the switchboard had to be levelled and the turbine and generator shafts of both units lined up. The second 400-kv-a. generator failed in service under normal operating conditions on July 1. It may be recalled from last year's Annual Report that the first unit failed under similar circumstances last year. These machines are of the revolving-armature type and have been in service for more than thirty years. The failures were undoubtedly due to deterioration of the coil insulation. The armature was completely rebuilt; this included replacing one-fifth of the iron laminations and the re-insulation of all coils.

At High Falls generating station on the Mississippi river the wood-stave penstock was cleaned and treated with creosote.

At Calabogie generating station on the Madawaska river, no work other than the regular routine maintenance was necessary. The spare third unit, including turbine, generator and regulating devices, which had been stored at Calabogie but never installed, was shipped to the Rat Rapid development on the Albany river.

At Galetta generating station on the Mississippi river, a crack in the bulkhead wall of No. 1 unit was repaired.

#### **Municipal, Distributing and Switching Stations**

At Auburn transformer station the grounds were improved by grading, sodding and by planting seedling trees. This work was carried out in co-operation with the city of Peterboro.

At Belleville switching station an improved high-tension line and bus relay scheme was installed.

At Cataragui rural station one of the 100-kv-a. single-phase transformers failed in service on August 17, and was replaced by a system reserve transformer. The defective transformer was repaired and returned to reserve stores on September 18.

At Marmora, due to the construction of a bridge over the Crow river and the consequent raising of the highway, it was necessary to construct a new station.

At McDonalds Corners, near Perth, a 25-kv-a., 26,000-volt rural sub-station was constructed.

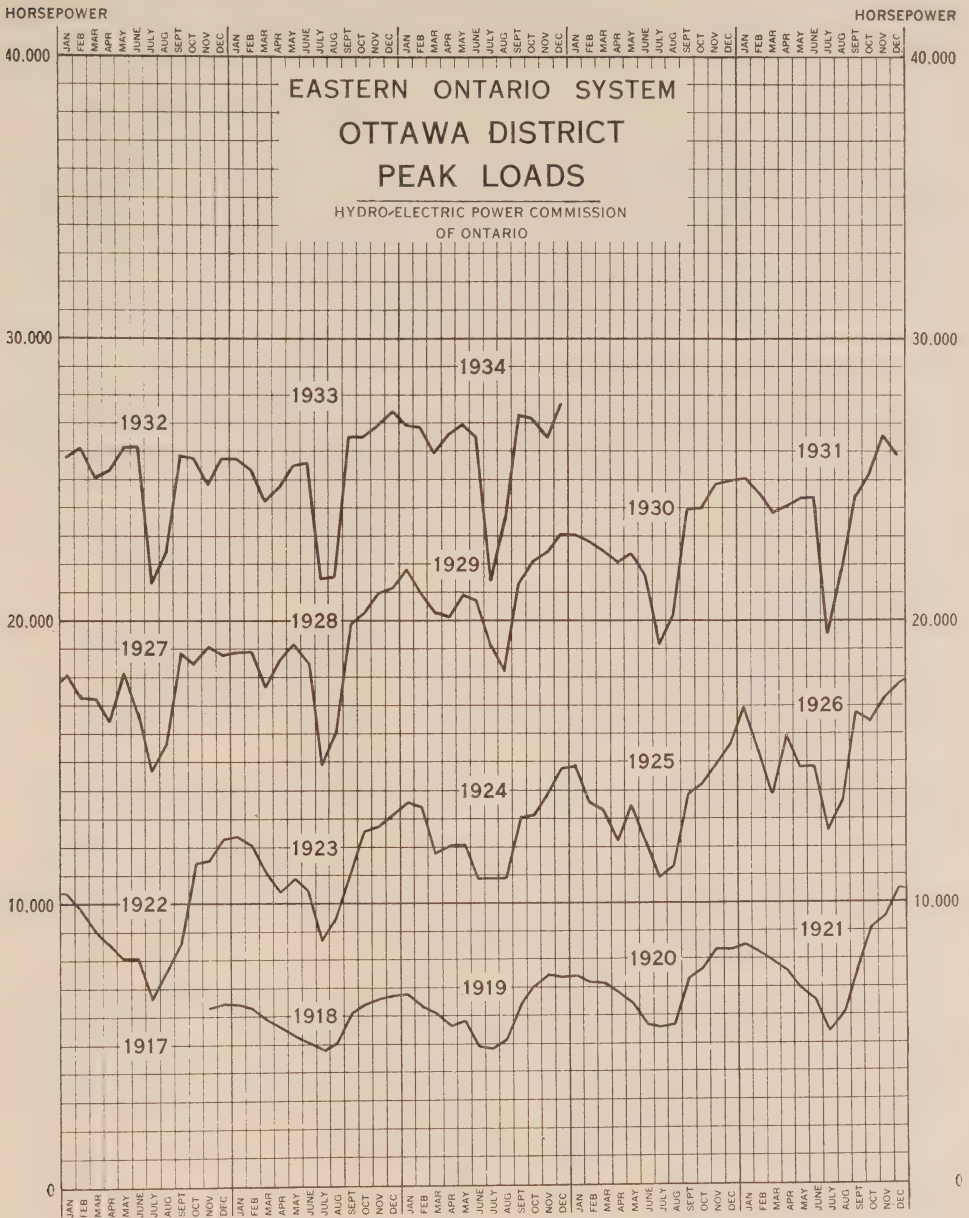
At Omemee distributing station a defective bushing was replaced in one of the 50-kv-a., 44,000-volt transformers.

At Oshawa No. 1 distributing station the 44,000-volt electrolytic lightning arresters were overhauled. A defective section of three conductor, No. 4/0, 4,500-volt lead-covered cable, approximately 100 feet in length, was replaced on one of the low-tension feeders. A set of three single-pole disconnecting switches was installed on the 44,000-volt bus for sectionalizing purposes and to facilitate work on the high-tension wiring.

At Port Hope switching station changes were made in the relay system.

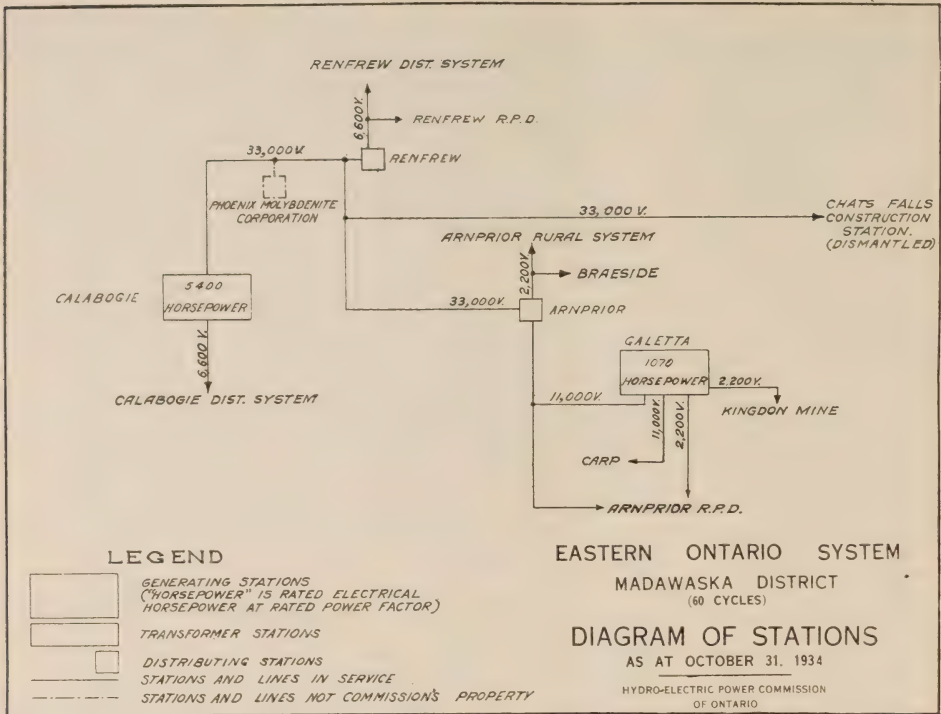
At Prescott distributing station a new low-tension relay system was placed in service on February 22.

At Renfrew transformer station protective and alarm devices were installed on the high-tension transformers and transformer oil-circulating system. The private telephone line was extended approximately 3,000 feet



not only to provide communication facilities but also remote alarm indication at the attendant's residence in the event of trouble. The above apparatus was installed as an operating economy, the station being now under the supervision of a standby attendant, instead of a full-time operator.

At Smiths Falls transformer station a defective bushing on the tertiary transformer was replaced. Polarity of the main transformer bank was changed in order to facilitate parallel operation of the 110,000-volt Ottawa-Kingston and Ottawa-Cornwall lines through the St. Lawrence district 44,000-volt lines.



A condenser potential device was installed in the 44,000-volt neutral in order to provide for ground protection on the 44,000-volt line to Brockville.

At Cornwall transformer station alterations were made in order to replace the 110,000-volt power supply from the Cedars Rapids Transmission Company with the Gatineau supply which became available with the construction of the new 110,000-volt steel-tower line from Ottawa.

At the Commission's pulp mill in Campbellford, the substation was overhauled. The high-tension oil-breaker was made non-automatic and fuses were installed on a two-pole structure outside. One of the 1,125-kv-a., 3-phase transformers, which had been in service since 1911, burned out and was replaced with a similar transformer from the Campbellford stores. A number of defective coils were replaced in the 600-horsepower motor.

High-Voltage Transmission Lines

In addition to the annual programme of inspection and maintenance of high-tension transmission lines, approximately 380 poles were relocated due to highway improvements. Approximately 9,800 poles were inspected, of which over 800 were stubbed due to rot at the ground line, and more than 6,300 were treated with a chemical preservative. Approximately 11,000 insulators were inspected or tested, resulting in the replacement of 1,200 defective units. The usual programme of tree trimming and weed cutting was carried out on the various high-tension line sections. A number of highways, railway and foreign wire crossings were rebuilt to conform with present day standard



requirements. In order to lessen damage to conductors caused by vibration, dampers were installed on certain sections of the 110,000-volt and 44,000-volt lines.

#### Meter Department and Repair Shops

An extensive programme of field work was carried out by the Meter department. A number of special tests relating to telephone interference, ground conductivity and voltage conditions were made at different points on the system. This department is also responsible for the operation and maintenance of all metering and relay equipment on the system, and is available on request to any of the municipalities wishing to have electrical measurements made or technical problems investigated.

The Belleville machine and meter repair shop has continued testing and repairing service meters for municipal and rural systems. 3,814 meters were adjusted and repaired, and 569 new meters were handled in this shop during the year. The usual programme of machine shop work in connection with hydraulic and electrical maintenance was carried out.

#### EASTERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES, 1932-1933-1934

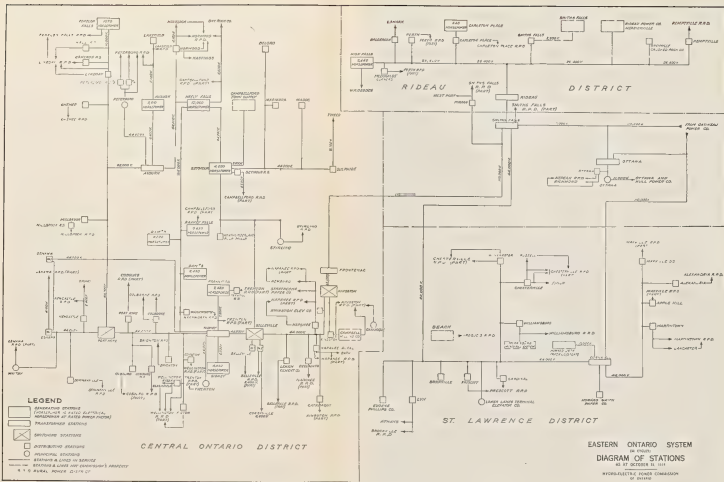
Municipality	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Alexandria.....	212.9	227.7	207.4	20.3	
Apple Hill.....	30.1	32.4	30.3	2.1	
Athens.....	82.4	74.4	74.4		
Bath.....	23.4	29.2	27.3	1.9	
Belleville.....	3,701.4	3,786.6	3,866.9		80.3
Bloomfield.....	73.4	76.1	76.3		0.2
Bowmanville.....	1,546.2	1,528.8	1,688.1		159.3
Brighton.....	270.7	279.9	267.8	12.1	
Brockville.....	2,380.1	2,329.1	2,497.3		168.2
Cardinal.....	139.7	142.3	148.4		6.1
Carleton Place.....	966.5	1,030.8	1,014.7	16.1	
Chesterville.....	191.1	159.9	170.1		10.2
Cobourg.....	1,424.7	1,501.3	1,317.7	183.6	
Colborne.....	163.6	126.8	137.0		10.2
Deseronto.....	148.6	118.5	126.6		8.1
Finch.....	42.3	44.9	43.5	1.4	
Hastings.....	65.2	73.9	87.4		13.5
Havelock.....	175.6	131.3	126.1	5.2	
Kemptville.....	241.3	246.2	272.1		25.9
Kingston.....	5,105.2	5,429.6	5,921.3		491.7
Lakefield.....	209.7	223.8	206.1	17.7	
Lanark.....	64.7	71.8	79.0		7.2
Lancaster.....	33.6	43.8	36.0	7.8	
Lindsay.....	1,564.5	1,760.1	1,866.1		106.0
Madoc.....	153.6	152.1	146.6	5.5	
Marmora.....	85.8	84.7	94.2		9.5
Martintown.....	21.5	21.8	22.5		0.7
Maxville.....	80.4	85.2	73.4	11.8	
Millbrook.....	79.6	75.6	76.5		0.9
Napanee.....	935.2	978.7	953.2	25.5	

EASTERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES—1932-1933-1934  
—Continued

Municipality	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Newburgh.....	42.6	45.6	39.5	6.1	
Newcastle.....	64.2	101.0	102.5		1.5
Norwood.....	116.3	96.1	102.0		5.9
Omemece.....	77.4	97.7	102.0		4.3
Orono.....	78.3	78.6	74.9	3.7	
Oshawa.....	6,494.6	6,722.5	8,859.2		2,136.7
Ottawa.....	25,758.6	26,208.0	26,954.1		746.1
Perth.....	1,038.9	1,135.4	1,139.4		4.0
Peterborough.....	6,011.4	6,407.7	6,095.3	312.4	
Pictou.....	871.6	869.8	868.7	1.1	
Port Hope.....	1,081.9	1,149.1	1,178.6		29.5
Prescott.....	770.8	696.5	705.8		9.3
Richmond.....	45.9	47.4	47.7		0.3
Russell.....	42.6	51.1	41.3	9.8	
Smiths Falls.....	1,509.3	1,468.4	1,549.6		81.2
Stirling.....	239.9	213.1	243.9		30.8
Trenton.....	2,745.4	2,911.1	2,948.5		37.4
Tweed.....	169.2	145.9	165.8		19.9
Warkworth.....	67.7	73.4	64.9	8.5	
Wellington.....	191.7	167.5	199.7		32.2
Westport.....	65.1	69.4	68.3	1.1	
Whitby.....	1,009.4	987.9	994.6		6.7
Williamsburg.....	142.1	198.4	212.4		14.0
Winchester.....	235.7	231.5	213.2	18.3	

EASTERN ONTARIO SYSTEM—RURAL POWER DISTRICT LOADS, 1932-1933-1934

Rural power district	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Alexandria.....	30.4	31.5	31.0	0.5	
Belleville.....	304.0	324.8	310.8	14.0	
Bowmanville.....	97.3	106.4	102.7	3.7	
Brighton.....	22.8	22.8	22.8		
Brockville.....	288.1	298.2	278.1	20.1	
Campbellford.....	67.3	69.5	65.6	3.9	
Chesterville.....	186.2	184.3	170.1	14.2	
Cobourg.....	242.9	270.7	279.1		8.4
Colborne.....	94.2	120.0	97.8	22.2	
Fenelon Falls.....	47.2	52.5	48.9	3.6	
Iroquois.....	445.0	428.1	408.8	19.3	
Kemptville.....	18.1	19.3	20.7		1.4
Kingston.....	296.2	323.7	324.9		1.2
Lakefield.....	32.7	34.3	39.6		5.3
Lindsay.....	10.0	16.4	16.4		







EASTERN ONTARIO SYSTEM—RURAL POWER DISTRICT LOADS, 1932-1933-1934  
—Continued

Rural power district	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Martintown.....	53.4	47.4	51.8	.....	4.4
Maxville.....	156.0	156.6	157.4	.....	0.8
Millbrook.....	34.3	36.3	42.1	.....	5.8
Napanee.....	177.2	213.9	211.1	2.8	.....
Nepean.....	624.3	590.6	582.3	8.3	.....
Newcastle.....	72.6	63.6	63.4	0.2	.....
Norwood.....	27.9	22.9	19.8	3.1	.....
Omeme.....	3.0	2.0	4.8	.....	2.8
Oshawa.....	677.0	626.2	727.8	.....	101.6
Perth.....	21.4	34.8	26.8	8.0	.....
Peterborough.....	420.4	391.1	438.8	.....	47.7
Prescott.....	109.8	106.4	116.6	.....	10.2
Stirling.....	48.1	46.2	50.5	.....	4.3
Smiths Falls.....	151.8	183.7	156.1	27.6	.....
Trenton.....	127.5	204.7	209.3	.....	4.6
Warkworth.....	3.0	3.0	3.0	.....	.....
Wellington.....	194.6	176.5	173.8	2.7	.....
Williamsburg.....	52.8	73.3	82.8	.....	9.5

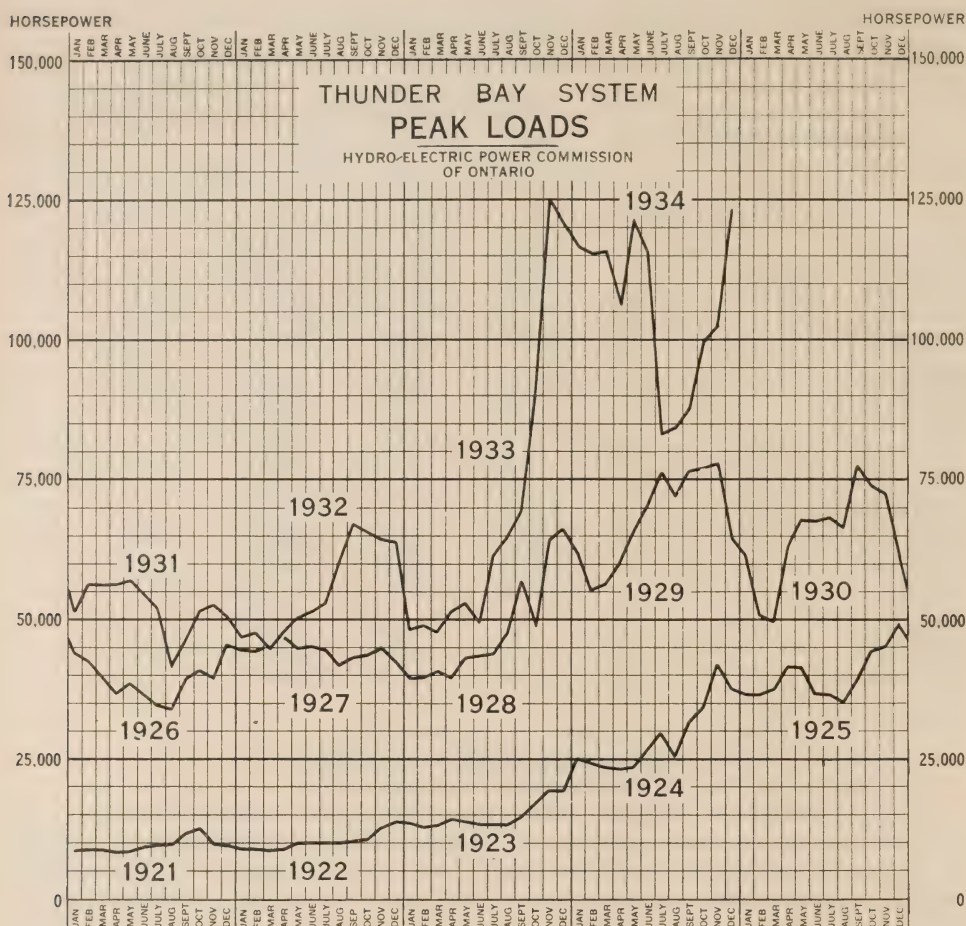
### THUNDER BAY SYSTEM

The load on the Thunder Bay system increased over the previous year. A large amount of power was sold for the generation of process steam (utilized in the pulp and paper industry), with the result that the average monthly energy generated showed an increase of 69 per cent and the average monthly peak an increase of 81 per cent over 1933. Excluding this steam load, the average monthly energy generated was 1.35 per cent greater, but the average monthly peak was 1.9 per cent less than in 1933.

Two new loads were added to the system. On November 12, two 12,000-kw. electric steam generators and auxiliary equipment were placed in service at the Provincial Paper Mill in Port Arthur. Power is supplied to this steam station over a short section of 110,000-volt wood-pole line, which is an extension to the line from Port Arthur transformer station to the Thunder Bay Paper Company's Bare Point mill. On September 6, the Little Long Lac Gold Mines' substation, near Geraldton, was placed in service. Power is supplied to this station over its 33,000-volt transmission line, which is connected to the line of the Northern Empire Mines at Empire.

The Nipigon Corporation Pulp Mill at Nipigon, which has not been operated since June, 1927, resumed operations in September. The substation was maintained alive, however, throughout the year, as Nipigon township was supplied from this point.

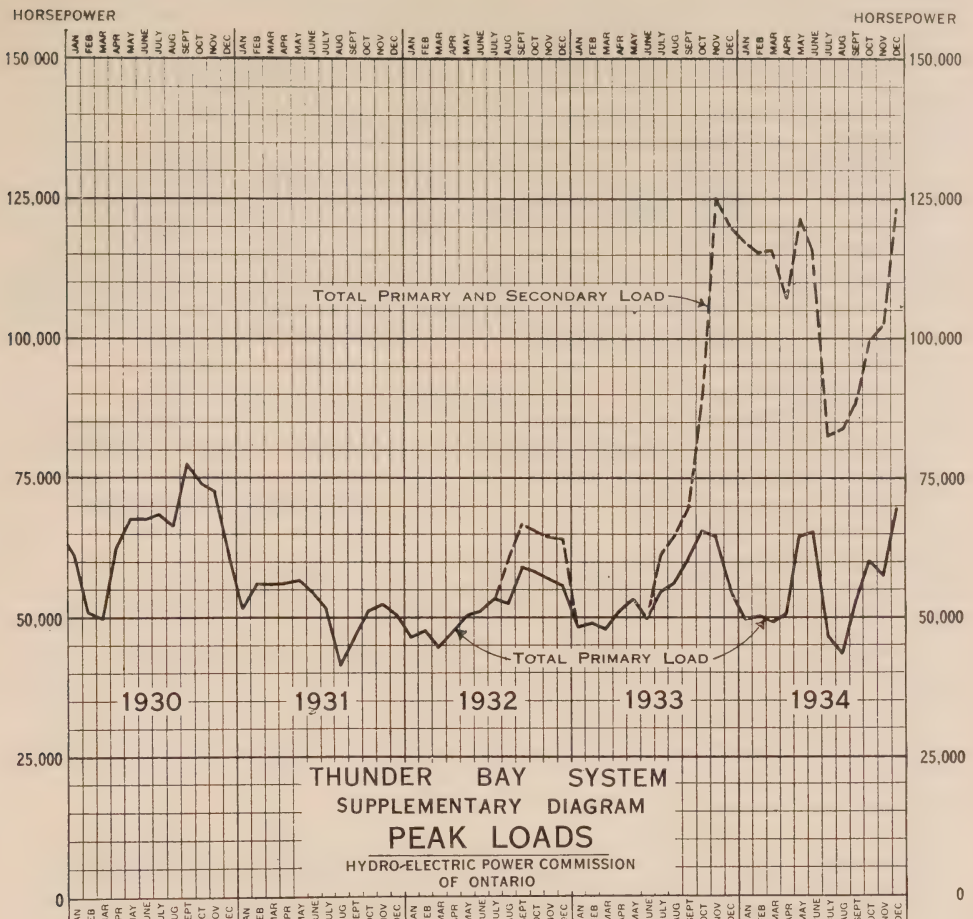
Routine hydraulic maintenance work was carried on at Cameron Falls generating station. All power transformers at this station have operated satisfactorily, routine maintenance work only being required.



Alexander generating station gave satisfactory operating service, no major maintenance work being required on any equipment. This station is supervisory controlled from Cameron Falls generating station. While a few troubles have been experienced with this control equipment, on the whole it has operated satisfactorily. The automatic synchronizer, which is used in connection with this supervisory control, has given excellent service. Two new permanent magnet generators were installed, one on each of units 1 and 3. These are similar installations to that placed on No. 2 unit in 1932, and are used to supply energy to the governor flyball heads, replacing the pilot exciter source which was formerly used.

The transmission lines have caused little trouble. The 110,000-volt system experienced one total interruption for one minute on June 30, when, during an electrical storm, No. 2 and No. 3 lines tripped out at both ends and No. 1 line tripped out at Port Arthur. In addition to this the Great Lakes Paper Company suffered a short interruption due to a smokestack guy wire coming into contact with the line. Fort William experienced one five-minute interruption, due to a flashover caused by a large bird flying into the line. Flashovers during electrical storms were responsible for four short interruptions to Nipigon



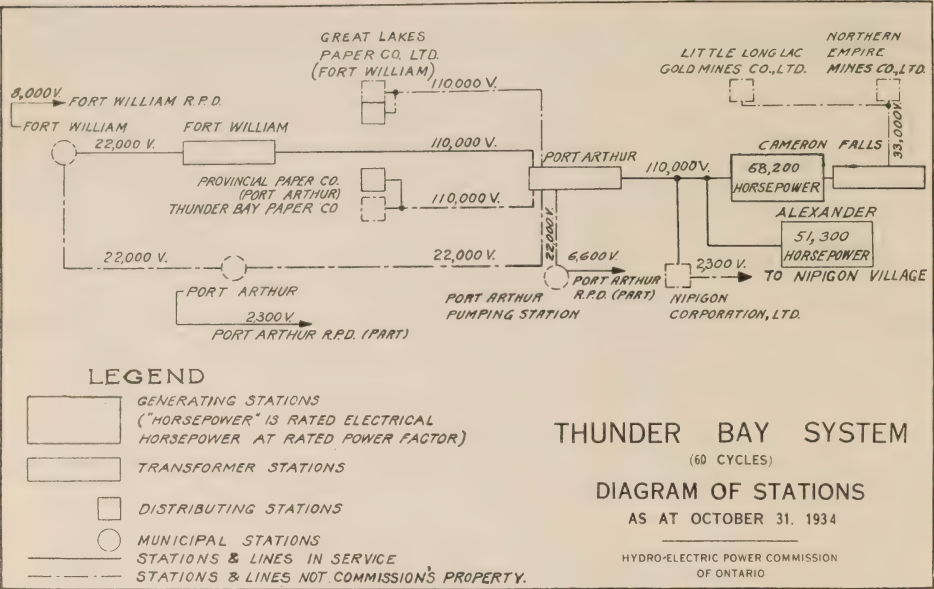


Corporation station. A 110,000-volt entrance bushing failure was responsible for a six-hour interruption to this station. The service to Northern Empire mines was interrupted on four occasions before the Little Long Lac Gold Mines station and line were placed in service. One of these interruptions was due to bushing failures in transformers at Cameron Falls generating station during an electrical storm, the others were due to trees falling into the line. After the Little Long Lac line was placed in service, ten interruptions, some of rather lengthy duration, were experienced due to trees falling into the line.

Special attention has been given to testing the line insulators and replacing those found faulty. The line conductors were closely inspected for broken or loose strands, and these repaired where necessary.

The Port Arthur transformer station has had no curtailment of service to any customers due to failures of equipment. The relay equipment which was installed in all the 110,000-volt lines at this station in 1933 has functioned satisfactorily.

The Fort William transformer station has had no failure of equipment or incorrect functioning of relays or breakers. Routine maintenance work only was required at this station.



Precipitation in the watershed supplying this system has been about average, slightly over 24 inches being recorded. Even with the heavy load on the system it has been found necessary to waste a considerable amount of water at both plants during the greater part of the year. Notwithstanding the high river flow, the elevation of lake Nipigon has been raised about 15 inches during the year.

THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES, 1932-1933-1934

Municipality	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Fort William.....	10,916.7	10,932.0	10,835.8	96.2	
Nipigon Township.....	83.0	101.1	105.1		4.0
Port Arthur.....	35,195.1	33,205.5	26,251.5	6,954.0	

THUNDER BAY SYSTEM—LOADS OF RURAL POWER DISTRICTS

Rural power district	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Fort William.....	35.0	80.0	83.7		3.7
Port Arthur.....	23.7	33.2	37.5		4.3

**MANITOULIN DISTRICT**  
**Supplying Power to the**  
**MANITOULIN RURAL POWER DISTRICT**

Operation of the Manitoulin district was satisfactory throughout the year. Three interruptions totalling four hours, thirty-three minutes, were required by the Manitoulin Pulp Co. to permit it to make repairs to equipment from which power for the district is supplied. In addition to these there were several short service interruptions due to lightning disturbances. There were no maintenance items of importance during the year.

**MANITOULIN RURAL POWER DISTRICT LOADS, 1932-1933-1934**

Rural power district	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
Manitoulin.....	.....	79.9	87.9	.....	8.0

**NORTHERN ONTARIO PROPERTIES**  
**Nipissing District**

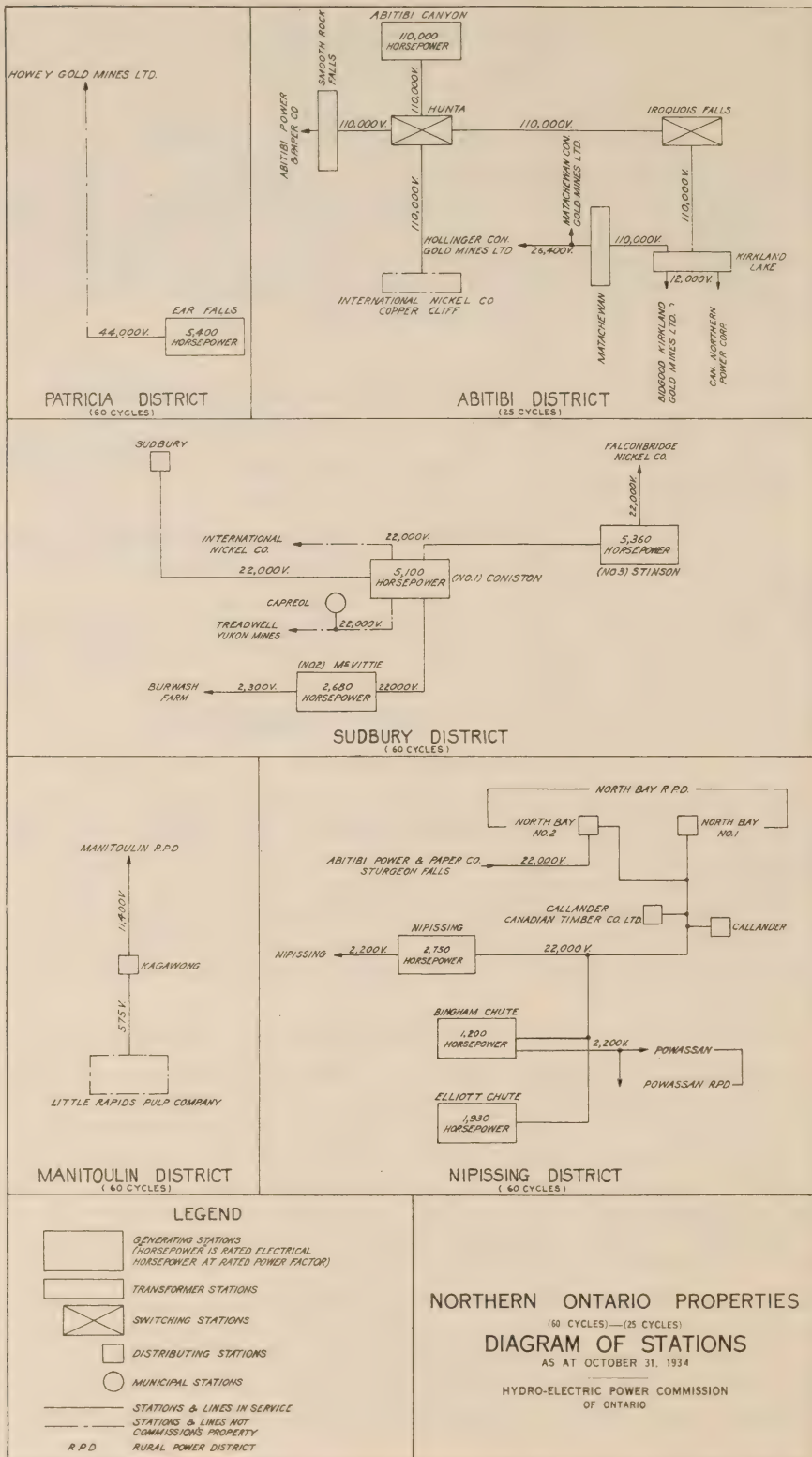
The Nipissing district load trend, as indicated by a comparison of monthly generated peaks and average loads for the current year with the loads for the corresponding months of the previous year, is somewhat erratic, the loads for the different months of the current year being higher in some cases and lower in other cases than for the corresponding months of last year. The general trend, however, is slightly upward as indicated by the fact that the total kilowatt-hours generated during the current year exceeds last year's total by 2.7 per cent.

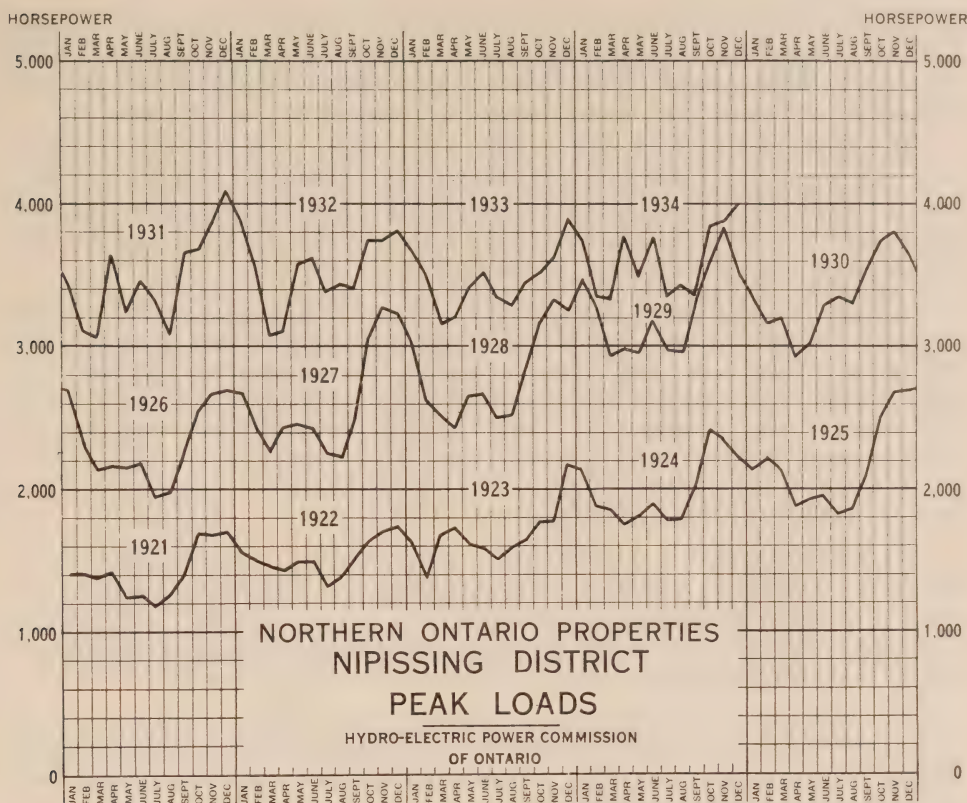
Water storage conditions have been satisfactory throughout the year.

Following a programme, initiated in 1928, for the renewal of all timber storage dams over a period of eight years, considerable work was done on the Sausage lake and Clear lake dams. At Sausage lake a reinforcing rock-filled timber crib, 67 feet in length with an 8-foot sluiceway in the centre, was constructed on the downstream side of the present dam. At Clear lake dam, 63 feet of bridge section was replaced by a gravel-filled timber crib, which was equivalent to the construction of a reinforcing dam immediately downstream from this section of the existing dam.

Renewal of defective materials in the various line sections included seven poles, three crossarms and eighteen insulator pins on the Callander junction to North Bay section, 31 poles on the Bingham Chute junction to Callander section, 128 insulators and 34 insulator pins on the Nipissing generating station to Bingham Chute junction section, and 102 insulators and two insulator pins







on the Elliott Chute junction to Bingham Chute Junction section. A total of 6.05 miles of old No. 9 iron telephone conductor was replaced with No. 6 a.c.s.r. An investigation into the destruction of wood poles by ants, which appears to be more serious in this district than elsewhere, was made. Remedial measures are being taken.

#### Generating Stations

At Nipissing generating station, No. 1 turbine and its governor pump were overhauled. Adjustments to No. 2 turbine were made pending complete overhauling. One armature coil in No. 2 generator was replaced.

The timber deck of the pipe-line headblock was replaced with a rock and gravel fill. The timber deck on the wing dam was replaced with a new deck, the old timber supports being replaced by steel beams.

A number of leaks in the wood-stave pipe line were stopped by installing tarred felt paper held in place by pre-formed steel plates inserted under the pipe-line bands. Three defective bench sills supporting the pipe line were replaced. The under side of the roadway bridge over the wood-stave pipe line was sheathed with galvanized iron to prevent the collection of dirt on the pipe line.

Obsolete choke coils on the outgoing 22,000-volt line were removed. One 22,000-volt oil circuit-breaker bushing, which failed due to lightning, was replaced. The four-pole transformer structure supporting the outdoor service transformers was rebuilt using new materials throughout.

At Bingham Chute generating station the bronze cooling coils in two 300-kw. power transformers were replaced with new copper coils, and the oil, which tests showed to be too high in acid content, was replaced with new oil. One armature coil in No. 1 generator failed in service and was replaced.

Extensive repairs to Bingham Chute dam were undertaken. A concrete core wall was constructed in the earth-fill section, a section of the concrete gravity wall which broke away under severe winter stresses was replaced, and the east wing wall was reinforced with a rock fill. Additional bracing was installed to support the headblock deck.

At Elliott Chute generating station a frost protection housing with electric heating facilities was installed on the downstream side of that section of the headblock in which is located the riser from the pipe line to the deck. An additional 28 cubic yards of riprap were laid on the upstream face of the earth-fill dam to prevent erosion at the water line, and an additional twenty cubic yards of gravel were spread on top of the earth-fill dam.

#### **Transformer and Distributing Stations**

At North Bay No. 1 substation extensive changes, including the installation of an additional 750-kv-a. power transformer, the replacement of the obsolete 22,000-volt lightning arrester with a modern arrester, and various alterations and additions to the low-tension switching equipment were made, and the new equipment was placed in operation on September 30.

At Callander substation three 22,000-volt fuse holders, which were found on test to be causing radio interference, were replaced with a better type of holder. The obsolete telephone protective equipment at this station was replaced with up-to-date equipment.

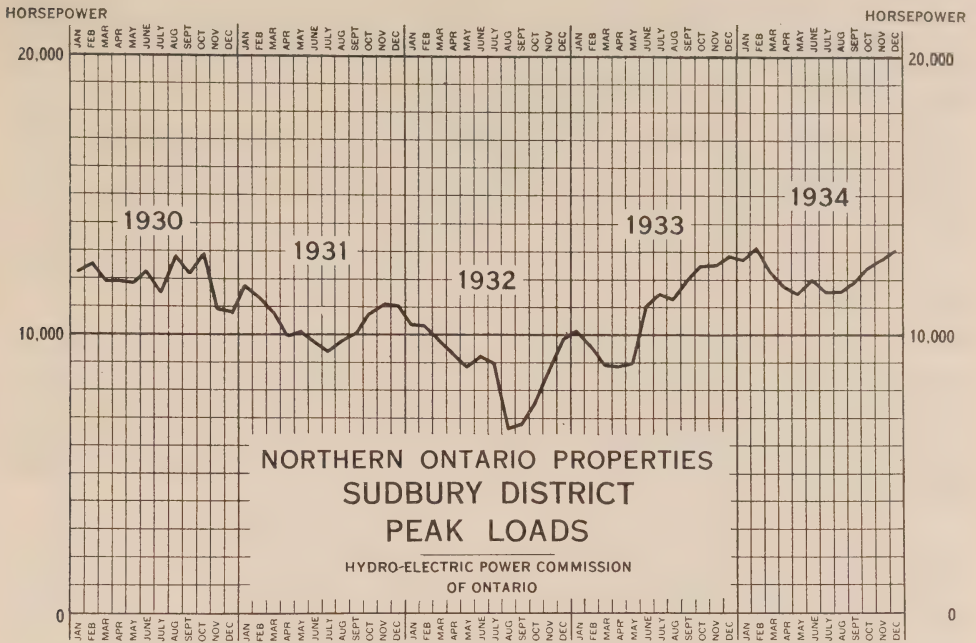
At the Canadian Timber Company substation in Callander a bank of bucking transformers was installed to reduce the low-tension voltage on the customer's supply. One power-transformer high-tension bushing at this station failed in service, and was returned to the manufacturer for repairs and improvements. All other high-tension transformer bushings at this station were also returned to the manufacturer for improvement.

### **Sudbury District**

The highest generated peak load on record for the Sudbury district occurred on February 12, 1934. For the first ten months of the current year the generated peak and average loads exceeded the peak and average loads for the corresponding months of the previous year. During September the peak load was down one per cent and the average load down three per cent with respect to the loads of September, 1933, but this was apparently due to curtailment of load over a four-day period by one of the larger customers while repairs to their plant were in progress. The October peak load was the same as the peak for the previous October, but the average load increased 7.7 per cent.

As stated in the last Report the Wanapitei lake level was lowered about four feet below normal during the summer months of 1933, to oblige the operators of certain mining properties. Owing to sub-normal precipitation, additional storage for power generation during the fall and early winter was





not regained before the freeze-up. This, combined with an increase in flow requirements to meet district load increases, resulted in a complete depletion of usable storage by the time relief was obtained from the spring run-off. In order to draw the water from the lake at the low levels which existed in late February, March and early April, it was necessary to blast out gravel and boulders which restricted the stream flow a short distance upstream from the Wanapitei lake storage dam. The water storage situation at the end of the present fiscal year is satisfactory.

On the sixteen-mile tie line between McVittie and Coniston generating stations, all brush was cleared from the right-of-way, twenty-one defective poles were replaced, fifty-one poles were stubbed, the remaining poles were straightened where necessary, and all poles were butt treated with solignum.

Blasting by road gangs in the vicinity of the tie line between Stinson and Coniston generating stations was the cause of several cases of damage to insulators, conductors, and poles. All poles on this section were butt treated with solignum and the right-of-way was cleared of brush. A few defective insulators were replaced on the line between Coniston generating station and Sudbury.

At Coniston generating station the outside surfaces of the three steel penstocks were cleaned and protective coatings of red lead were applied where required. An investigation into the cause of leakage through the timber dam was made, following which the upstream side of the dam was resheathed with two-inch ship lap, a new timber crib and clay puddle section was built at the end opposite the headrace, new flooring was laid in all sluiceways, and the corners of two piers were reinforced. As a result of this work leakage through the dam, which had reached serious proportions, was reduced to a negligible amount.

No. 3 turbine was completely overhauled. Forty new gate-link bolts and seven new gate-link pins were made and installed, and cracks in four buckets of the downstream runner were rewelded. No. 1 and No. 2 turbines were found to require only minor adjustments.

At McVittie generating station new filler gate stems were installed on both headgates and a new filler gate was installed in the No. 2 headgate. Protective housings were erected around the vent pipes of No. 1 and No. 2 penstocks and electric heaters were installed inside these housings.

No. 1 and No. 2 turbines were inspected and found to require only minor adjustments.

The lead-covered cable between No. 1 generator and the low-tension switching equipment failed in service and has been temporarily replaced, pending delivery of a new cable. Insulation tests show that failure of the corresponding cable between No. 2 generator and the low-tension switching equipment may be anticipated at any time and it is the intention to replace this cable also.

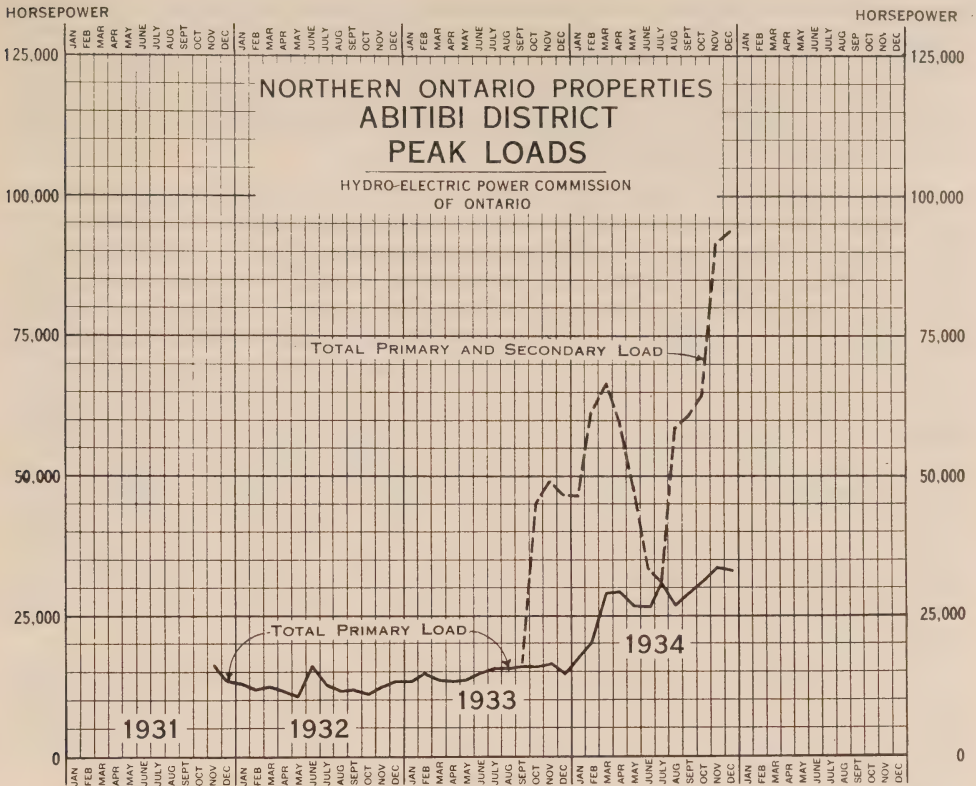
At Stinson generating station the exciter turbine was completely overhauled. Six new gate bolts were made and installed, the upstream end of the turbine shaft was re-threaded and a new runner locking nut was installed. No. 1 and No. 2 turbines were inspected and found in good condition, only minor adjustments being required.

At Sudbury transformer station an additional 1,000-kv-a., 23,500/2,400-volt transformer has been supplied for use in case of failure of one of the three units feeding the city load. One 2,200-volt oil circuit-breaker on the feeder serving the city motor load was damaged beyond repair by lightning on May 21. This breaker was replaced by a similar unit.

### **Abitibi District**

The extent of growth in the Abitibi district is indicated by the fact that the average of the monthly generated peaks for the fiscal year 1934, is approximately 312 per cent of the average of the monthly generated peaks for the fiscal year 1933. A comparison of total energy generated in the two years shows an even greater increase. This growth is due partly to the supply of secondary power for steam generation and partly to the acquisition of new primary load, the latter being in October, 1934, approximately 100 per cent greater than in October, 1933.

The year 1933-34 was the first complete year's operation of the Abitibi Canyon generating station. The second unit, which had been available for service intermittently since the latter part of August, was officially released for continuous operation on December 7, 1933. In general, the performance of all equipment was very satisfactory, and no major maintenance or repair work was required. There were, of course, the usual number of minor adjustments, changes and additions to equipment, which may be anticipated in a new station of this size. Despite an unusually severe winter, ice troubles were chiefly confined to the collection of frozen spray on the waste gate operating mechanisms which interfered with gate operation. This was remedied by



constructing tarpaulin shields around the apparatus affected. Routine inspections of equipment according to schedule were carried out throughout the year. The spring freshet, which at its peak involved the passage of 70,000 c.f.s. through the waste channel, was handled satisfactorily.

One 3-phase, 1,500-kv-a. service transformer, which was supplied to supplement the 450-kv-a. service unit originally installed, was placed in service on January 3. A second 1,500-kv-a. service transformer, which was installed in an outdoor substation to serve the operators' colony, was placed in service on February 11.

Connections between the third 132,000-volt power circuit from Abitibi Canyon to Hunta, and the high-tension bus at Canyon were completed and placed in service on January 31.

Of a total of thirty-four service interruptions to the International Nickel Company at Copper Cliff, twenty-nine were directly attributable to lightning disturbances over the 246 miles of 132,000-volt steel-tower line exposure between Abitibi Canyon and the customer's station, two were due to unknown causes, two were due to a bush fire which crossed the line in the vicinity of Westree, and the remaining one was due to reflection of trouble from another



part of the district. Except for these unavoidable interruptions, the operation of the lines serving this customer was satisfactory, maintenance work being confined to the replacement of a small number of defective insulators, the majority of which were damaged by rifle shots, the clearing of brush from sections of the right-of-way, and the replacement of a short section of wood-pole telephone line which was damaged by a bush fire.

On January 31 one circuit of the second double-circuit 132,000-volt steel-tower line between Abitibi Canyon generating station and Hunta, one circuit of the double-circuit 132,000-volt steel-tower line between Hunta and Iroquois Falls and a new 56-mile, single circuit 132,000-volt wood-pole line between Iroquois Falls and Kirkland Lake, were placed in service, in order to make initial delivery of power to the Northern Canada Power Corporation at Kirkland Lake. In order to deliver this power on the contract date it had been necessary to construct the 56 miles of wood-pole line between Iroquois Falls and Kirkland under most adverse winter conditions. As a result of this, considerable difficulty was experienced in maintaining service during the spring months when the frost was coming out of the ground. Following the completion of adjustments necessitated by this condition, the operation of the lines serving Kirkland Lake was satisfactory, maintenance work being confined to the replacement of a few insulators which were broken by rifle shots, the replacement of one broken pole, and the straightening of three poles which were blown partially over by a very severe windstorm.

On April 30, a new 38-mile, 132,000-volt single-circuit wood-pole line between Kirkland Lake and Matachewan was placed in service in preparation for service to customers in the Matachewan area. The operation of this section of line was satisfactory.

On July 31, the 21-mile, double-circuit, steel-tower line between Hunta and Smooth Rock Falls was placed in service for initial delivery of power to the Abitibi Power and Paper Company mill at Smooth Rock Falls.

On September 8, 4.8 miles of 12,000-volt single-circuit, wood-pole line between Kirkland Lake and Bidgood Kirkland Gold Mines were placed in service.

At Kirkland Lake, initial delivery of power to the Canada Northern Power Corporation was required before the Commission's transformer station was completed. To accomplish delivery to the customer's low-tension bus, power from the Commission's high-tension line was stepped down through a bank of three 3,000-kv-a., 110,000/11,000-volt transformers, which were loaned to the Commission by the customer. One of these units failed in service while on loan and the minor repairs required were made at the expense of the Commission.

The Commission's Kirkland Lake transformer station was completed and placed in service on July 26. Power from the Commission's high-tension circuits is stepped down through a bank of three 9,500-kv-a. transformers to a low-tension voltage of approximately 12,000. This voltage is regulated to conform to the customer's low-tension voltage requirements by means of a three-phase, 15,000-kv-a. voltage regulator, of the tap changing underload type. Accessory equipment includes high-tension air-break switches, low-tension oil circuit-breakers, transformer cooling-water system, transformer oil-

filtering equipment, etc. The station is of the outdoor, steel-structure type, and the site adjoins the site of the Canada Northern Power Corporation station. Under an operating agreement with the Canada Northern Power Corporation the Commission's station is operated in conjunction with the Corporation's station by the Corporation's staff and operation in this manner has been satisfactory.

At Matachewan a new station erected to serve mining customers in the Matachewan area was placed in service on April 30. Power from the Commission's high-tension line is stepped down through a bank of three 1,500-kv-a. transformers to approximately 26,000 volts at which voltage it is distributed to customer's transformer stations over short feeders. The station is of the outdoor, wood-pole type. Accessory equipment includes a high-tension air-break switch, low-tension oil circuit-breaker, high and low-tension co-ordinating spark gaps, etc.

On June 3, initial delivery of power to the Matachewan Consolidated Gold Mines Limited was made, and on July 10, initial delivery to the Hollinger Consolidated Gold Mines Limited, Young-Davidson property, was made from this station.

At Smooth Rock falls a new station was placed in service on July 31, 1934, to supply power for steam generation to the Abitibi Power and Paper Co. mill. Power from the Commission's high-tension circuits is stepped down through a bank of three 13,000-kv-a. transformers to approximately 6,600-volts, at which voltage it is supplied to two 25,000-kv-a. steam generators. The transformers and high-tension equipment are installed in an outdoor type, steel-structure station. The low-tension buses and equipment are housed, and the steam generators are installed in the mill building. Accessory equipment includes high-tension disconnecting switches, low-tension oil breakers, steam generator circulating pumps, etc. This station is operated for the Commission by the customer's staff.

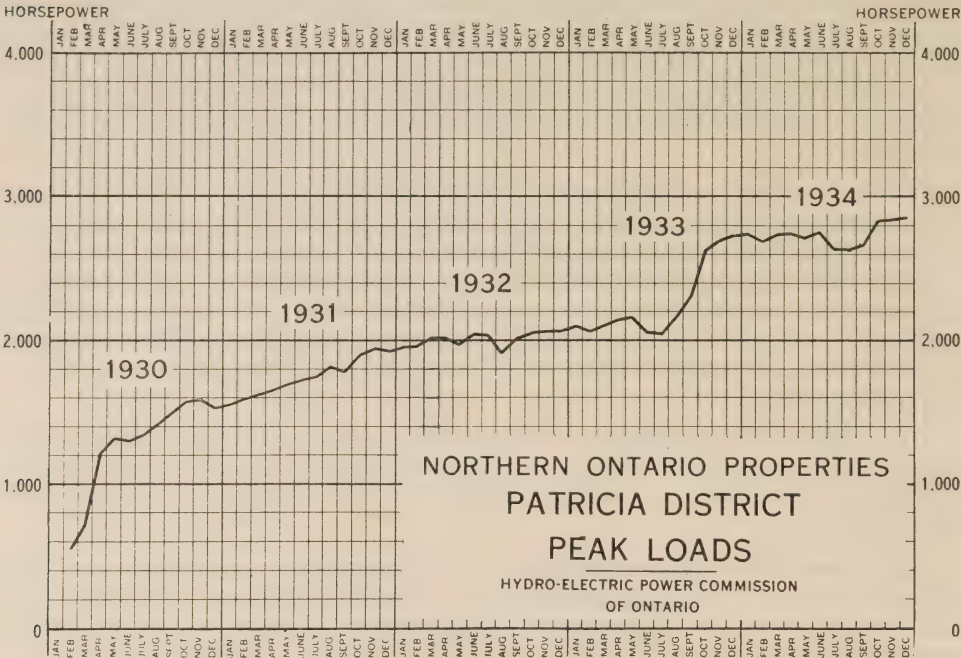
On September 8, initial delivery of power to Bidgood Kirkland Gold Mines Limited from the Kirkland Lake station was made. This involved placing in service at Kirkland Lake station a low-tension oil circuit-breaker, and a set of low-tension disconnecting switches through which power from the low-tension bus is supplied to the low-tension line feeding the customer's station.

On June 3, the temporary supply of power for steam generation to Abitibi Power and Paper Company at Iroquois Falls was discontinued at the customer's request. Delivery of this power commenced October 23, 1933.

At Hunta the installation of line disconnecting switches on all incoming and outgoing lines, and installation of a transfer bus with disconnecting switches between the bus and various lines, is in progress. Those switches associated with the two easterly incoming and outgoing circuits were completed and placed in service on October 21. On the same date two sets of disconnecting switches which had been installed at Iroquois Falls in the two circuits between Hunta and Iroquois Falls, were placed in service.

As practically all equipment in the district is comparatively new, maintenance work has been at a minimum, no failures of any major equipment having been experienced to date. Routine inspections of all equipment, and repairs or adjustments where required, have been made.





Patricia District

The generating and transformer station at Ear Falls on the English river has been in satisfactory operation throughout the year. All equipment has functioned as required, there being no failures of major importance. The system load has shown an increase over that existing during the previous year. The average monthly energy generated was about 30 per cent greater and the average monthly peak approximately 26 per cent higher during 1934 than in 1933.

Excellent service has been obtained from the 44,000-volt transmission line and equipment, there being no interruptions due to trouble during the year. An interruption was arranged with the Howey Gold Mines Limited on November 29, in order to install a temporary rheostat in the generator field circuit and to improve the governor operation at Ear Falls generating station. During the period May 24 to 28, three short interruptions were arranged in order to allow the installation of an automatic generator voltage regulator equipment and pilot exciter.

This voltage regulator equipment was installed in an attempt to reduce the wide swings in voltage which had been present since the Howey Gold Mines placed its new hoist in service late in October. This regulator equipment is operating satisfactorily and favourable results have been obtained.

A certain amount of maintenance work has been carried out on the major equipment during the pre-arranged plant shut-downs. The turbine operating mechanism, governor system, and auxiliary mechanical equipment have been inspected and overhauled where needed.



The 44,000-volt transmission line between the generating station and the Howey Gold mines, which is owned by the Howey Gold Mines, Limited, has been operated and maintained for this company throughout the year under the same arrangement for costs as previously. The transmission circuit has functioned satisfactorily during the year.

The flow in the English river has been adjusted from time to time, as required by the Lake-of-the-Woods Control Board, by means of the regulating dam at Ear Falls.

The precipitation in the vicinity of Ear Falls has been slightly above normal, being 26 inches during the year. Owing to the heavy snowfall the run-off occurred very quickly and the level of lac Seul rose very rapidly, notwithstanding the fact that exceptionally large river flows were permitted. Heavy inflows to the lower English river also contributed to high tailwater at the plant. While the level of lac Seul had been regulated during the previous years to 1,161.5, it rose as high as 1,166.95 this year. This has been materially reduced, being 1,164.0 on October 31, 1934, as compared with 1,160.8 on October 31, 1933.

#### NORTHERN ONTARIO PROPERTIES—LOADS OF MUNICIPALITIES, 1932-1933-1934

Municipality	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
<b>NIPISSING DISTRICT</b>					
Callander.....	175.0	196.4	198.5		2.1
Nipissing.....	3.0	3.0	3.0		
North Bay.....	2,915.0	2,911.4	3,087.1		175.7
Powassan.....	131.0	106.5	103.0	3.0	
<b>SUDBURY DISTRICT</b>					
Sudbury.....	3,667.5	3,599.2	3,807.0		207.8

#### NORTHERN ONTARIO PROPERTIES—LOADS OF RURAL POWER DISTRICTS, 1932-1933-1934

Rural power district	Peak load in horsepower			Change in load 1933-1934	
	Oct. 1932	Oct. 1933	Oct. 1934	Decrease	Increase
<b>NIPISSING RURAL POWER DISTRICT</b>					
North Bay.....	77.0	77.9	100.5		22.6
Powassan.....	2.0	3.0	3.0		

## SECTION III

### MUNICIPAL WORK

The Commission acts in an advisory capacity to the municipalities with which it has contracts. In this connection the Commission assists the municipal officials to make arrangements for the purchase, construction or extension of distribution systems. As provided under *The Power Commission Act* all rate adjustments are approved by the Commission. A study of the operating conditions of all utilities is therefore made annually and adjustments recommended. The Commission exercises a general supervision over the management and operation of all systems more especially in smaller municipalities which, individually, are not of sufficient size to employ a manager with the technical knowledge necessary to administer all phases of the local system's operation.

In the case of the rural power districts, the Commission—on behalf of the corporations of the individual townships—operates the rural power systems, and distributes electrical energy to the customers of the respective corporations in any such rural power district.

### NIAGARA SYSTEM

On July 1, 1934, a second block of power, amounting to 20,000 horsepower, was taken from the MacLaren-Quebec Power Company, and on October 1, 1934 a third block of power, amounting to 54,000 horsepower, was taken from the Beauharnois Light, Heat and Power Company. This power is transmitted over the 220,000-volt line from Beaudet to Chats Falls.

The load on the Niagara system during the fiscal year 1934 shows a substantial increase in the total amount of power taken by the municipalities and industrial companies, in each month of the year, excepting November 1933, as compared with the corresponding months of the previous year. The figures used in this comparison do not include secondary power sold for process steam generation and for export to the United States. During the year a substantial increase was shown in the sale of secondary power. The loads on the systems of the Commission are referred to more fully in Section II of this Report.

#### “Secondary” Power

“Secondary” power is the term applied to power which is sold subject to unlimited interruptions, to reduction, or to complete withdrawal, at any time it is required for use by municipalities or for the maintenance of the supply of

firm power. Although the Niagara system has a high load-factor it has, of course, daily and seasonal peaks; thus there are, even in times of normal industrial activity, periods of the day and of the year when large amounts of "secondary" power are available. "Secondary" power, however, on account of the uncertainty of the times and durations of the system peaks, is not sufficiently dependable for ordinary industrial uses. A limited amount of such power can be utilized by special industries in certain heating and electro-chemical processes. Although Canadian consumers are at all times given priority of consideration, the chief market for "secondary" power which the Commission has had at its disposal on the Niagara system has, up till recently, been in the United States, served by supply systems securing a large proportion of their power from steam plants. Such systems, by utilizing when available this "secondary" power, can conserve their fuel supplies. The sale of this power to the Canadian Niagara Power Company for use in the United States has enabled the Commission to employ profitably its generating equipment at times when not required to take care of the demands of the Niagara system. During the year this Company has continued to take this kind of power in substantial quantities.

#### **Profitable Employment of System Reserve Generating Capacity**

In times of curtailed industrial activity the amount of reserve power capacity which it is necessary to maintain, increases. If this reserve capacity can be put to profitable temporary use under conditions or contracts that ensure the maintenance of its character as system reserves, it is an economic gain to the Province and brings to the Hydro undertaking a revenue which reduces the cost of maintaining the essential reserves.

One market for this type of power is found in the production of steam for industrial processes. During the past year the Commission has supplied substantial amounts of secondary power for steam purposes and arrangements are being made to supply other companies in a similar manner. As general economic conditions improve, there will be less reserve power available for this purpose because more will be required for the normal uses of the municipalities. Meantime, it may be noted, the utilization of reserve power for the production of process steam replaces imported coal.

#### **Engineering Assistance to Municipalities**

General engineering assistance was given during the year to practically all municipalities in the Niagara system in connection with the operation and management of their local systems.

Certain municipalities received special engineering advice and assistance regarding a number of matters, which are more fully referred to as follows:

**Acton**—Assistance was given in arranging for new office quarters.

**Etobicoke Township**—Arrangements were made for doubling the capacity of Islington station.

**Exeter**—At the request of the Exeter Public Utilities Commission, the Commission's rural office took over the operation of the local system.

**Forest Hill**—The transfer from York Township to Forest Hill of the distribution system in the village has been under consideration and will be submitted to the electorate at an early date.



**Georgetown**—The removal of all distribution circuits from the business portion of Main street, excepting those used for street lighting, was completed.

**Paris**—Reconstruction of part of the distributing system and the installation of new underground feeders was completed during the year. Erection of a new structure for terminating the underground circuits will eliminate a serious hazard and help to prevent a number of interruptions. Plans were prepared and the work supervised by the Commission's engineers.

**Sarnia**—Installation of one 150-horsepower motor and one 200-horsepower, 4,000-volt slip-ring motor in the waterworks plant was completed. These motors are directly connected to centrifugal pumps which have a capacity of 3,240,000 imperial gallons, and 4,320,000 imperial gallons per 24 hours respectively. The original steam-driven pumps are being retained as a reserve.

**Tillsonburg**—The local municipal substation is being redesigned to take advantage of the better operation obtainable from modern equipment.

**Zurich**—Estimates were prepared of the cost of changing the distribution system from 4,000 volts to 8,000 volts. This work has been discussed with the local Board of Trustees and in all probability will be put into effect during the coming summer.

### GEORGIAN BAY SYSTEM

There was a small increase in load in the majority of the municipalities amounting in the aggregate to an increase for the system of approximately 2.6 per cent over last year. There was some expansion in the rural power districts, particularly in the summer resort section, but the large grain and quarry loads are still substantially below the demands recorded a few years ago.

The original high-tension line between Waubauskene and Midland was rehabilitated during the year, the two circuits being converted to one and the length of the line shortened by approximately three-quarters of a mile with a resultant improvement both physically and financially for the municipalities at the north end of the Severn district.

General engineering advice respecting the management and operation of the various local distribution systems, together with assistance in connection with the application of rates to power and lighting consumers was rendered to all the municipalities throughout the system.

Assistance of a special nature was given to certain municipalities as follows:

**Barrie**—To determine the cause of transformer failures, a test and check of the underground power circuit was made.

**Huntsville**—Further advice and recommendations in connection with proposed ornamental street lighting for the main street was given.

**MacTier**—The substation was rebuilt and the distribution system changed from 2,200 to 4,000 volts. New primary metering equipment was installed for the C.P.R. load.

**Port Sydney**—In August the ratepayers of the hamlet of Port Sydney (formerly part of Utterson rural power district) voted in favor of incorporation as a village, but the bill, which received the assent of the Legislature, postpones the date of possible purchase of the distribution system until August, 1935.

### EASTERN ONTARIO SYSTEM

In the Eastern Ontario system, which comprises the districts of Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska, the average monthly primary power increased 10 per cent over 1933. Power to meet the growth was obtained by increased deliveries of purchased supplies under the contract with the Gatineau Power Company for 60-cycle power. This contract is a flexible one and provides for the delivery of additional power on short notice.

The arrangements for supplying power to the St. Lawrence district were changed. A 110,000-volt line from Ottawa to Cornwall station was built in July. The district is now served from the interconnected sources of power on the system and under the terms of the agreement the contract with the Cedars Rapids Power Company was cancelled on July 31.

In August, delivery of power for steam generation to a large paper mill at Cornwall, was commenced. The contract is for a maximum of 26,800 horsepower. By this contract the Commission has disposed of practically all surplus power that is from time to time available on this system. The power for steam generation is of course delivered only when surplus power is available.

Arrangements were nearly completed to supply 300 horsepower to a large mining developing company to operate a property situated in Marmora township.

General engineering assistance and advice was given to nearly all the municipalities served by the system.

Certain municipalities received special engineering advice and assistance which are more fully referred to as follows:

**Arnprior**—Municipal authorities opened negotiations with the Commission for the purchase of the local distribution plant and for a supply of power from the Madawaska plants under a cost contract. The necessary estimates were made and a proposal submitted by the Commission.

**Cardinal**—A report on the purchase of a duplicate submarine cable to be laid across the Galops canal was made for the corporation.

**Casselman**—The corporation requested the Commission to furnish information on the cost of supplying the municipality with power. Estimates were submitted.

**Cobden**—Following the destruction of a storage dam belonging to the local water power plant, a by-law was passed on September 6, authorizing the purchase of power from the Commission. A transmission line is being constructed from Renfrew to supply power to Cobden from the Madawaska plants.

**Cobourg**—The Cobourg Public Utilities Commission has installed static condensers in the waterworks to maintain a 90 per cent minimum local system power factor. Similar installations were made by two large customers of the local Commission.

**Deseronto**—A complete rehabilitation of the 2,200-volt lines of the Deseronto distribution system was completed early in the year.



**Napanee**—The Napanee Public Utilities Commission has completed the conversion of a series street lighting system to a multiple system with pilot wire control. Extensive general improvements in the distribution system were also completed.

### THUNDER BAY SYSTEM

In the Thunder Bay system load increases have taken place during the year, largely due to power sold for electric steam generators at the pulp and paper mills. The power supplied to mining properties has also increased, and the generating plants at Cameron Falls and Alexander have been loaded to capacity at various times during the year.

The installation of 24,000 kw. in electric steam generator equipment was completed and placed in operation at one of the large pulp and paper mills, under the terms of a contract executed at the close of last year. At the present time there are three installations of this kind in operation, and when all are operating at maximum capacity the load varies from 60,000 to 70,000 horsepower. The power for electric steam generation is all sold on an at-will basis and is recallable by the Commission at any time if plant capacity is required to take care of firm power customers.

A new mining contract was executed and power delivered at the close of the year to a property in the Little Long Lac district. One of the existing mining customers installed additional mill capacity, which will increase its demand for power by approximately 60 per cent. It is expected that this new load will be in operation early in the new year. Information was submitted to several prospective mining consumers; it is anticipated that there will be a large increase in the amount of power supplied to mining consumers during the coming year, and that several thousand horsepower may be sold for mining purposes in the course of the next two to four years.

Engineering assistance and advice concerning the maintenance and operation of the various distribution systems was given to the cities of Fort William and Port Arthur, and to the village of Nipigon, and the complete operation of the Port Arthur and Fort William rural power districts was carried on by the Commission on behalf of the various townships concerned.

### MANITOULIN RURAL POWER DISTRICT

The district comprises the greater part of the island of Manitoulin, which has been formed into a special rural power district, including the town of Gore Bay and hamlet of Mindemoya. Power is purchased by the Commission from the Little Rapids Pulp Company at Kagawong and distributed throughout the rural power district.

### NORTHERN ONTARIO PROPERTIES

#### Nipissing District

The district includes the area lying north and east of lake Nipissing and is served by three generating plants on the South river, supplemented at times by purchased power from Sturgeon river. The principal customers are the city of North Bay, the town of Powassan, the unincorporated hamlets of



Callander and Nipissing, and the North Bay and Powassan rural power districts, the latter providing for electric service in portions of the townships of West Ferris, Himsworth, Nipissing and Widdifield.

Very little change occurred in the power demands compared with the previous year. Consequently, no changes were required other than those of a routine nature in generating plant, transmission line, transformer stations or municipal distributing systems. A short extension was, however, constructed out of Callander to serve the Dafoe Hospital for the Dionne quintuplets, and power was delivered to this customer just prior to the close of the year.

### **Abitibi District**

The district includes the area lying within transmission distance of the Abitibi Canyon development and takes in the mining districts adjacent to Sudbury, Kirkland Lake, Matachewan, Ramore and Timmins. During the year a contract was made with the Northern Canada Power Corporation for delivery of power at Kirkland Lake, and a transmission line was constructed from Iroquois Falls to Kirkland Lake and a transformer station erected at the line terminal for the purpose of providing service under this contract. At the end of the year the demand of this company was approximately 15,000 horsepower. Contracts were also signed with two mining companies in the Matachewan district, and to serve them the transmission line was extended from Kirkland Lake to Powell township. A transformer station was constructed adjacent to the mine properties. At the end of the year the combined demand in the Matachewan district was about 1,500 horsepower.

A contract with a mining company in the Kirkland Lake district was entered into and a short section of transmission line constructed out of the Kirkland Lake station to serve this customer; the power taken at the end of the year being about 400 horsepower. A contract was also executed covering service to a mining property in Hislop township, and arrangements are being made to construct a transformer station and approximately two miles of transmission line to serve the customer. An agreement was executed covering delivery of power to a mining property in the Timmins district, and to serve this customer arrangements are being made to provide a transformer station and a short transmission line.

Negotiations were conducted with a number of mining properties in the West Shiningtree, Matachewan, Kirkland Lake, Ramore and Timmins districts, and information was submitted covering cost of power and the cost of the necessary transformation and transmission equipment required to serve each property. In all, negotiations of this kind were conducted with fifty-five mining companies in the Abitibi district, and as a result it is anticipated that a number of new contracts will be obtained. Due to power supplied to several new mining customers and to the Northern Canada Power Corporation, a large increase in load has taken place in this district over the previous year, and a greater load increase is anticipated during the coming year.

Engineering assistance was given to the town of Timmins in making a valuation of the distribution system. Assistance was also given to the Matachewan townsite in connection with constructing a distribution system to supply lighting and power to this rapidly growing community.

### **Sudbury District**

The district includes the area adjacent to the city of Sudbury which is served at 60 cycles from three hydro-electric developments on the Wahnapiatae river. Power is supplied for municipal and lighting purposes, and also to large mining companies in the Sudbury basin. The output of the developments is practically all sold, and any future load expansion will have to be taken care of at 25 cycles from the Abitibi district system, or by the installation of frequency-changer sets for the transformation from 25 to 60 cycles.

A new contract was prepared and forwarded to the city of Sudbury covering a supply of power for its requirements, and a by-law will be submitted to the electors at the next municipal elections.

Negotiations were undertaken with the Treadwell-Yukon Mining Company with respect to the acquisition of the 22,000-volt transmission line between the Coniston generating station and the mine formerly operated by the company at Bradley in the Sudbury basin. It is expected that these negotiations will be completed in the near future.

### **Espanola District**

The district comprises the territory adjacent to the Abitibi Power and Paper Company's power development at Espanola in the southern portion of the district of Sudbury. It is a new district formed this year as the result of a contract executed with the Abitibi Power and Paper Company covering the purchase of a block of 60-cycle power from the Espanola development and serves mining properties in the district.

### **Patricia District**

The district includes the area north-west of lac Seul in Patricia district and comprises all of the territory within transmission distance of the Ear Falls development. At the present time power is being delivered to the Howey Gold Mining Company, and during the year negotiations have been conducted with a large mining property located on McKenzie island in Red Lake district. Negotiations were also carried on with three mining properties located in the Woman Lake district, and it is anticipated that at least one, if not all, of these properties will be supplied with power during the coming year. An investigation was made during the year concerning the installation of additional generating units at the Ear Falls development for the purpose of taking care of increased mining load.

### **St. Joseph District**

The district comprises the territory immediately north of lake Joseph in Patricia district. Contracts were signed during the year with two mining companies, and the construction of a power development was undertaken at Rat Rapids on the Albany river. It is expected that the development will be completed early in the new year. The estimated initial power demand under the two contracts will be in the neighborhood of 1,000 horsepower.

## RURAL ELECTRICAL SERVICE

### IN ONTARIO

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The Province of Ontario extends over a vast area of 400,000 square miles, the southerly portion commonly known as "Old Ontario" contains most of the settled population. In this territory there is an assessed area of approximately 40,000 square miles, containing about 22,000,000 acres of which 75 per cent is cleared land for agricultural purposes. The total rural population in this area exceeds 1,100,000.

The Commission estimates that within reasonable transmission distance of the present transmission lines and stations about 65,000 farms may be served. At the end of 1934 approximately one-half of these farms were receiving electrical service.

There are 171 operating rural power districts and power is delivered to approximately 64,000 rural consumers, comprising farms and dwellings in various groups. The consumers are situated in 353 townships and 93 police villages and are served over networks of rural primary lines, which aggregate nearly 9,500 miles. In addition to the 353 townships served by rural power districts, 10 townships are served jointly by rural power districts and voted areas.

The widespread use of modern conveniences, such as the radio, telephone and automobile, has brought the rural dweller into close touch with the life of the cities; the annual fairs and exhibitions have made him familiar with the application of electrical appliances and machinery suitable for work on the farm. Nevertheless the conception which many rural residents at first have in regard to their electrical requirements is often confined to lighting of the house and barn.

In order to encourage the more liberal use of electric power by Ontario farmers, studies were made during the year which had for their objective the further reduction of rural rates and the beneficial utilization of surplus energy. As a result of these studies three major benefits were approved as follows:

#### *1. Free Service*

Commencing November 1, 1934, and during a period of three years thereafter, the Commission will provide current free of charge, to operate electric washing machines, licensed alternating current radios, and electric pumps to provide water under pressure for household sanitary systems.

The offer is available to all present farm and hamlet users (excepting summer cottages) now supplied from all Hydro rural power district lines in Ontario, who are paying standard rural rates approved for each district. It applies also to all new farm and hamlet homes which may be added to these lines as consumers during the three-year period.



2. *Maximum Consumption Charge*

The Commission has found that the maximum economic limit of the first domestic use throughout the Province is 6 cents per kilowatt-hour. It has been decided therefore that in all rural power districts where the first consumption rate exceeds 6 cents per kilowatt-hour, this rate will be reduced to a maximum of 6 cents per kilowatt-hour. The maximum second rate of 2 cents per kilowatt-hour applies to all districts.

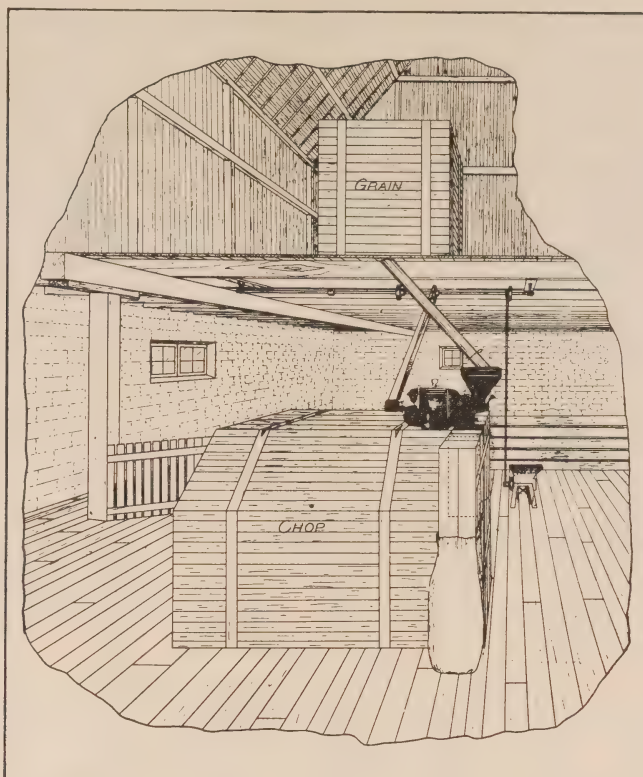
3. *New Low Third Consumption Rate for Long Hour Users*

During the year the Commission made available for rural consumers a special energy rate for long hour uses of power by rural consumers. This particularly affects under-earth heating (hot-beds) and heating of water. Where the use of power may be obtained from the present equipment, a third follow-up rate of 0.75 cents gross, is given in all districts. The first rate remains unchanged, except that as pointed out in number 2, it is subject to a maximum of 6 cents per kilowatt-hour, and the kilowatt-hours to be charged at the first rate remain unchanged. The number of kilowatt-hours to be charged at the second rate varies both with the class of service and the first kilowatt-hour rate. The following schedule shows the class of service, the number of kilowatt-hours per month to be charged for at the first rate, and the number of kilowatt-hours at the second rate according to the governing first rate.

SCHEDULE—FOR EACH CLASS OF RURAL SERVICE—OF KILOWATT-HOURS  
PER MONTH TO BE CHARGED FOR AT THE FIRST CONSUMPTION RATE,  
AND AT THE SECOND CONSUMPTION RATE

All kilowatt-hours in excess of the sum at the first and second rates to be billed at  
0.75 cents per kilowatt-hour.

Class of rural service	Number of kw-hrs. per month at first energy rate	Number of kw-hrs. per month at second energy rate				
		Where first energy rate in district is:				
		more than 5 cents	4.1 cents to 5 cents	3.1 cents to 4 cents	3 cents	less than 3 cents
1B	30	45	60	75	105	120
1C	30	120	150	180	240	270
2A	30	45	60	75	105	120
2B	30	120	150	180	240	270
3	42	108	138	168	228	258
4	70	180	230	280	380	430
5	70	180	230	280	380	430
6	126	324	414	504	684	774
7	210	540	690	840	1,140	1,290



#### RURAL ELECTRICAL SERVICE IN ONTARIO

The utility-motor chopper set up as shown permits chopping to be done while the operator is otherwise employed in the barn. The line shafting, when belted to the motor, will supply power for many other machines used in the barn

#### Provincial Government Aids Rural Electrical Service

Assistance respecting electrical service is given by the Province to farmers and rural residents in three ways, namely:

First—A “grant-in-aid” toward the initial capital cost of supplying electrical service, amounting to 50 per cent of the cost of line and secondary equipment necessary to deliver power from the supply point of the Commission’s stations or of a city, town, village, etc., to the customer’s property. This is the maximum amount provided for by *The Rural Hydro-Electric Distribution Act*.

Second—Authority was granted to the Commission by the Province in *The Rural Power District Service Charge Act*, 1930, to fix a maximum service charge for any class of service in a rural power district. Where as may be the case in newly established rural power districts such maximum service charge is not sufficient to meet the necessary cost of service, as specified by the Commission, the deficit is chargeable to and payable out of the Consolidated Revenue Fund of the Province. Payments made out of the Consolidated

Revenue Fund for this purpose, on account of any rural power district, are charged to that rural power district in a special account—known as the “Rural Power Service Suspense Account”—in the books of the Treasurer of Ontario, and any surplus thereafter arising from any maximum service charge in that rural power district is paid to the Treasurer of Ontario and placed to the credit of the rural power district in such suspense account until the deficit is extinguished. Where a temporary deficit arises in any rural power district owing to the application of the maximum service charge, such maximum service charge must remain in force and be charged in that rural power district until the deficit is extinguished.

The following tabulation shows the present maximum service charge, in effect since January 1, 1930.

**SERVICE CHARGES IN RURAL POWER DISTRICTS—SINCE JAN. 1, 1930**  
**With Provincial Grant-in-Aid—25-cycle and 60-cycle Service**

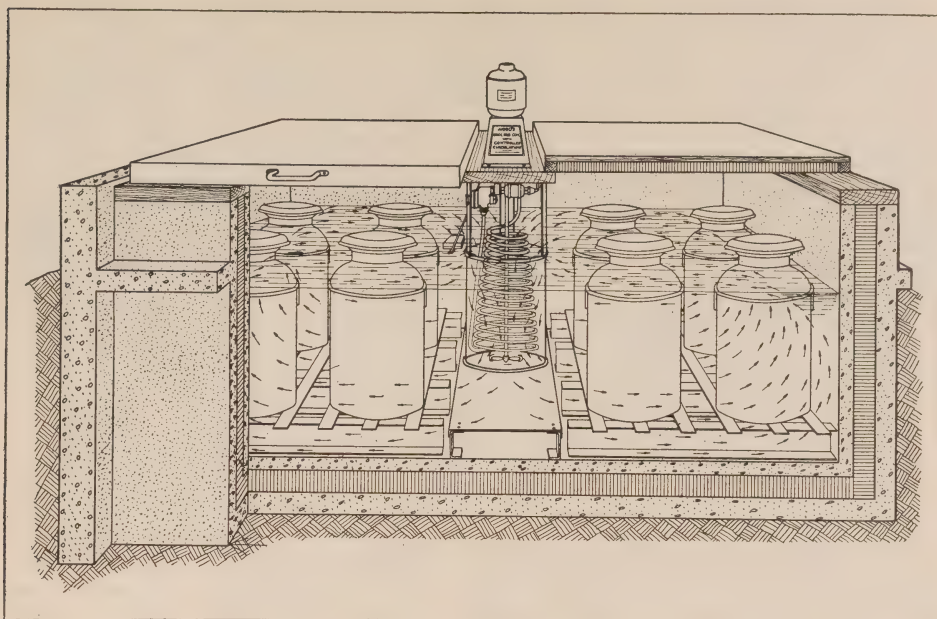
Class of rural service	Units per consumer*	Approx. number of customers per mile of line	Demand allowed consumer in k-w.	Kilowatt-hours per month at first rate	Gross annual service charge	Gross monthly service charge	Net annual service charge	Net monthly service charge
					\$ c.	\$ c.	\$ c.	\$ c.
1B	2.25	6.8	1.32	30	18.00	1.50	16.20	1.35
1C	3.75	4.0	2.0	30	27.96	2.33	25.20	2.10
2A	1.90	8.0	1.32	30	20.64	1.72	18.60	1.55
2B	3.50	4.3	2.0	30	27.96	2.33	25.20	2.10
3	<b>5.00</b>	<b>3.0</b>	<b>3.0</b>	<b>42</b>	<b>33.36</b>	<b>2.78</b>	<b>30.00</b>	<b>2.50</b>
4	5.35	2.8	5.0	70	36.00	3.00	32.40	2.70
5	7.50	2.0	5.0	70	50.04	4.17	45.00	3.75
6A	12.50	1.2	9.0	126	62.04	5.17	55.80	4.65
6B	12.50	1.2	9.0	126	70.68	5.89	63.60	5.30
7A	20.00	0.74	15.0	210	92.64	7.72	83.40	6.95
7B	20.00	0.7	15.0	210	111.36	9.28	100.20	8.35

\*Before a rural primary line is constructed contracts equivalent to 15 primary units per mile must be signed. (For explanation of units see accompanying text.) Thus three Class 3 consumers at 5 units each equals 15 units. Service charges are adjusted so that each class of service bears its equitable share of the cost.

Note: For classification of services see page 84.

Third—An Act—*The Rural Power District Loans Act, 1930*—to provide for granting aid towards the installation of electrical works in rural power districts was passed in 1930. The purpose of the Act is to provide, subject to regulations, advances toward the installation of electrical services in rural power districts. Aid may be granted for the wiring from the transmission or distribution lines of the Commission into and throughout dwellings, farms, out-houses, and any other works which may from time to time be specified by the regulations. In addition to the wiring, loans may be obtained on transformers, motors, or other appliances, as may be necessary or expedient for any industrial, agricultural or domestic purpose which may be specified in the regulations.





#### RURAL ELECTRICAL SERVICE IN ONTARIO

Milk cooling by electric refrigeration with agitation is now being used by progressive Ontario farmers to their economic advantage. It is reported that this method of cooling is less expensive, more reliable and certainly cleaner than ice

#### Rural Loans

Authority given to the Hydro-Electric Power Commission under *The Rural Power District Loans Act, 1930*, to finance the installation of wiring and the purchase of electrical farm equipment by rural consumers enabled the Commission during the past year to make loans to a number of farm users for the above purpose.

During the fiscal year ending Oct. 31, 1934, there were received 107 applications for loans; of this number 7 were withdrawn, 10 did not fulfill the requirements and 22 were awaiting the receipt of final papers. In 3 cases the applicants changed their minds after cheques had been issued and did not require the loan. Out of the 29 applications held over from last year, 16 were finally granted. The net result is that a total of 81 loans were made during the fiscal year.

Since the Rural Power District Loans Act was put into force, 602 applications have been received and 452 loans granted. The following table shows the number of applications approved and granted in rural power districts in various systems:

LOANS GRANTED TO CONSUMERS IN RURAL POWER DISTRICTS

System	Total to Oct. 31, 1933		Fiscal Year 1933-34		Total to Oct. 31, 1934	
	No.	Amount	No.	Amount	No.	Amount
Niagara.....	259	\$ 53,395	71	\$ 12,735	330	\$ 66,130
Georgian Bay.....	85	23,792	6	1,235	91	25,027
Eastern Ontario.....	22	6,103	3	550	25	6,680
Thunder Bay.....			1	335	1	335
Manitoulin R.P.D.....	5	1,060			5	1,060
Totals.....	371	84,377	81	14,855	452	99,232

The average loan is \$219.54.

DETAILS OF RURAL LOANS GRANTED TO OCTOBER 31, 1934

Items applied for (including installation) in loans which have been made	Totals for 371 applications granted to Oct. 31, 1933		For 81 applications granted during year ended Oct. 31, 1934		Totals for 452 applications granted to Oct. 31, 1934	
	Number affected	Cost to consumers	Number affected	Cost to consumers	Number affected	Cost to consumers
Service.....	172	\$ c. 9,527.14	15	\$ c. 580.74	187	\$ c. 10,107.88
House wiring.....	171	17,216.90	15	1,120.00	186	18,336.90
Building wiring.....	171	15,083.13	17	925.27	188	16,008.40
Motors.....	38	3,995.26	3	122.70	41	4,117.96
Grain grinders.....	197	35,110.72	67	12,563.00	264	47,673.72
Pumping systems.....	16	1,612.53	2	490.00	18	2,102.53
Milking machine.....	6	1,466.00			6	1,466.00
Washing machines.....	25	2,827.00	1	65.00	26	2,892.00
Totals.....		86,838.68		15,866.71		102,705.39

Respecting the 452 applications which have been granted the following table shows the number of loans approved and their terms:

One year term.....	5 loans	Six year term.....	7 loans
Two " ".....	5 "	Seven " ".....	73 "
Three " ".....	31 "	Eight " ".....	9 "
Four " ".....	12 "	Nine " ".....	0 "
Five " ".....	272 "	Ten " ".....	38 "

Up to October 31, 1934, 49 loans had been repaid in full, either through the fact that the loans matured or because of the improved financial position of the borrower.

The application of the Rural Power District Loans Act was extended during the year to include approved electric milk coolers and electrically operated cream separators.

During the last month of the fiscal year there was a marked increase in the number of applications for loans.



#### RURAL ELECTRICAL SERVICE IN ONTARIO

Exterior view of a low-set greenhouse. Such greenhouses have low heat losses and are specially adapted to electric soil heating of the benches



#### RURAL ELECTRICAL SERVICE IN ONTARIO

Interior of low-set greenhouse showing installation of electric soil heating, cables and controls on the benches. This type of greenhouse perhaps in simpler form, built at low cost but tight, can advantageously be used by many market gardeners and rural residents. The automatic control of temperature is a great asset





#### RURAL ELECTRICAL SERVICE IN ONTARIO

Electric hot-beds produce superior growth both above and below ground. Illustrations show ageratum plants on completion of growth in hot-beds. Nos. 1 and 2 were grown in a manure heated bed; Nos. 3 and 4 in a bed with electric soil heat automatically controlled

The extent and effect of the Province's financial assistance with respect to the distribution of power in rural districts should be clearly understood. The Government grant-in-aid relates solely to the initial capital investment for distribution facilities in rural power districts. Having made its grant-in-aid, the Government further participates in the operation of each district in that it guarantees a maximum service charge, otherwise its participation in the operation of the property ceases. Each rural power district not only pays the cost of operation, maintenance and administration of its lines, but also sets up reserves for renewals, obsolescence and contingencies on the whole of the equipment and lines, as well as for sinking fund on the investment made by the Commission on behalf of the townships served.

The aggregate rural load distributed in October of this year shows a satisfactory increase on all systems. The October load in 1934 was about 5 per cent. greater than the October load of the previous year.

The accompanying diagrams and tables illustrate the growth in rural electrical service in Ontario during the last fourteen years. There are indications that a substantial further growth may shortly take place.



#### RURAL ELECTRICAL SERVICE IN ONTARIO

Harvesting eggplants at Burlington which were propagated by electric soil heat. The grower was greatly pleased with the results

#### Construction

During the past year construction in the rural power districts was less than a few years ago. In part, this is due to the fact that in most rural power districts the main power lines are already constructed so that extensions now being made require shorter lengths of new primary line on the highways.

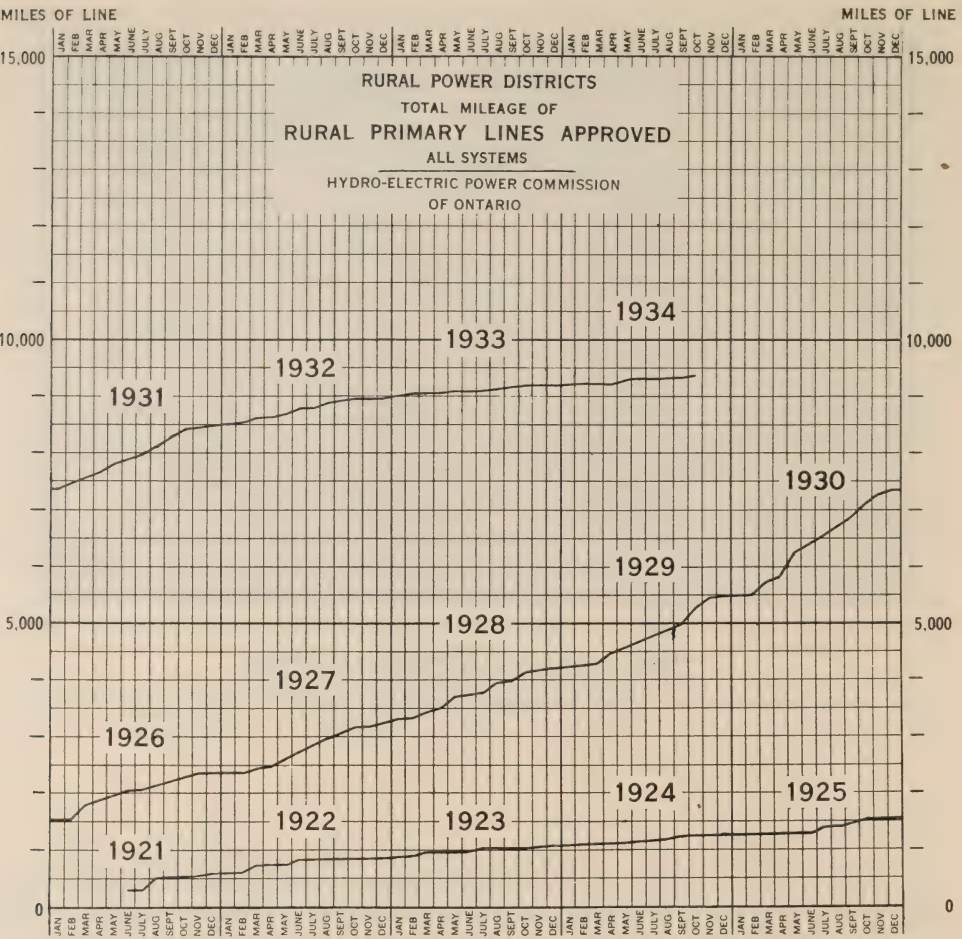
The total mileage of rural lines constructed to the end of 1934, to serve rural consumers, amounted to approximately 9,500 miles. The capital expenditure approved for rural construction during the past year was \$590,292.78, and the aggregate peak load in October, 1934 reached 33,949 horsepower. For the coming year arrangements have been made to construct about 470 miles of additional rural lines.

The tabulation on page 74 shows the extensions approved during the year, the number of consumers, the amounts of power supplied, the capital expenditures and the amount of Provincial "grant-in-aid" of rural lines approved by the Government.

#### Rates for Rural Electrical Service

Rates to rural consumers are based upon service "at cost"—account being taken of the Provincial "grant-in-aid" for rural work and the operation of the provision for a maximum service charge—and as in urban centres the

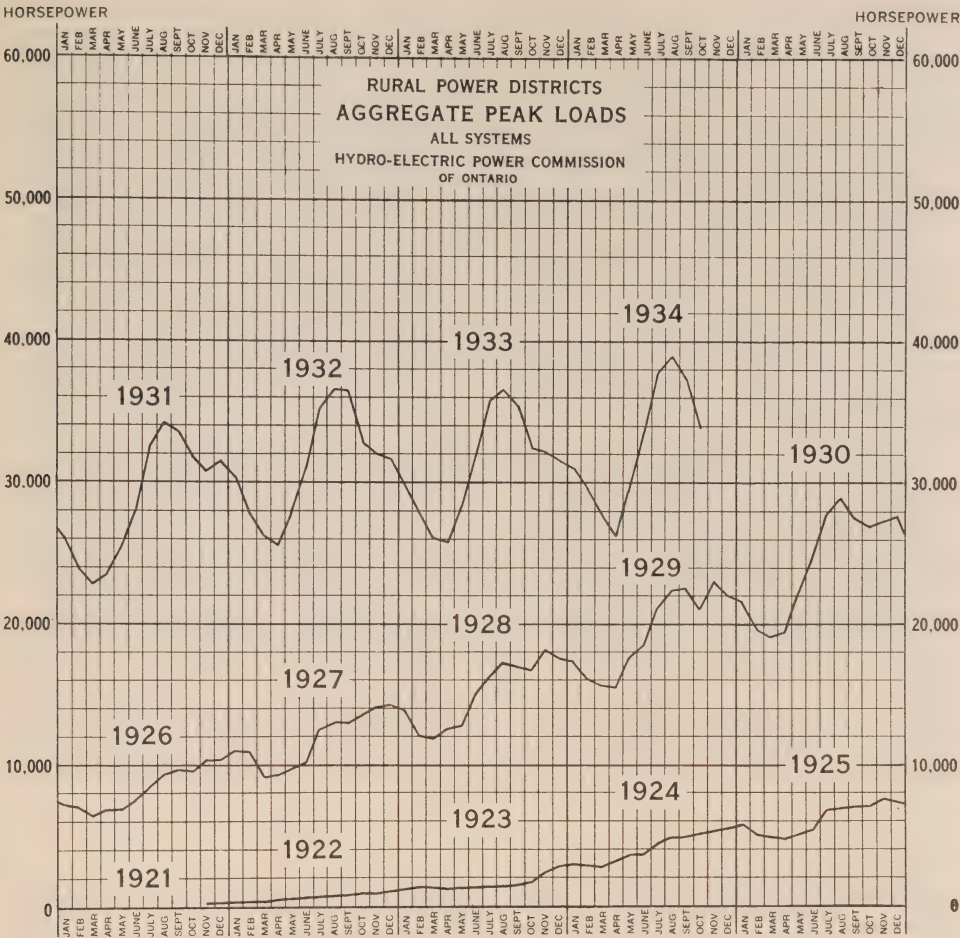




RURAL LINE EXTENSIONS APPROVED BY THE COMMISSION DURING THE YEAR 1934

System	Miles of primary line	Number of consumers			Power supplied in October, 1934	Capital approved for extensions	
		Hamlet	Farm	Total		Total	Provincial grant-in-aid
Niagara.....	115.26	636	521	1,157	h.p.	\$ c.	\$ c.
Georgian Bay.....	28.77	279	103	382	25,726	396,542.26	198,271.13
Eastern Ontario.....	35.71	245	136	381	2,490	85,954.00	42,977.00
Thunder Bay.....	2.84	12	14	26	5,421	95,810.52	47,905.26
Manitoulin R.P.D.....		2		2	121	8,071.00	4,035.50
Northern Ontario properties:					88	690.00	345.00
Nipissing district.....	0.52	42	5	47	103	3,225.00	1,612.50
Total.....	183.10	1,216	779	1,995	33,949	590,292.78	295,146.39





SUMMARY OF RURAL LINE EXTENSIONS  
As Approved by the Commission from June 1, 1921 to Oct. 31, 1934  
Constructed or Under Construction

System	Miles of primary line	Number of consumers			Capital approved for extensions	
		Hamlet	Farm	Total	Total	Provincial grant-in-aid
Niagara.....	6,766.75	23,041	22,656	45,697	\$ 14,925,424.89	\$ 7,439,432.44
Georgian Bay.....	891.25	4,323	1,880	6,203	1,827,572.95	872,658.99
Eastern Ontario.....	1,670.54	7,014	4,105	11,119	3,708,055.31	1,854,027.65
Thunder Bay.....	80.96	123	164	287	143,371.00	71,685.50
Manitoulin R.P.D.....	37.25	145	20	165	63,613.00	31,806.50
Northern Ontario properties:						
Nipissing district....	14.62	335	34	369	47,319.00	23,659.50
Total.....	9,461.37	34,981	28,859	63,840	20,715,356.15	10,293,270.58

rates are made up of two parts, a service charge and a consumption charge. In any given rural power district the service charge to a consumer depends primarily upon the individual connected load or demand which determines his class rating (see "Classification of Services") but this is modified in the earlier years of operation of a rural power district by the provision respecting maximum service charge; the consumption charge is based upon a first, second and third kilowatt-hour rate and is largely determined by the cost of power at the source of supply to the rural power district.

For the purpose of determining the service charge, each mile of line is assumed to represent a minimum of 15 units and to each class of service is assigned a value in such units. The accompanying table gives this information and shows the annual and monthly service charges applicable to each class of service. More than 90 per cent of the contracts entered into for farm service are either Class 2B or Class III. These, therefore, are the representative classes for individual farm service.

Rather more than half the consumers in rural power districts are grouped in hamlets or small villages closely identified with rural activities, and these consumers are usually in Class 1B or Class 1C. It is pointed out that rural power districts do not include suburban districts or larger villages. These have their own electrical utilities.

Usually new rural power districts begin at standard rural rates and these constitute the maximum rates submitted to the proposed consumers. As the average number of consumers per mile of line increases, the service charges may be, and in practice have been, reduced; and with increased consumption the rates per kilowatt-hour are also lowered. Thus, in older-established rural power districts the total cost of service is much below the initial standard rates.

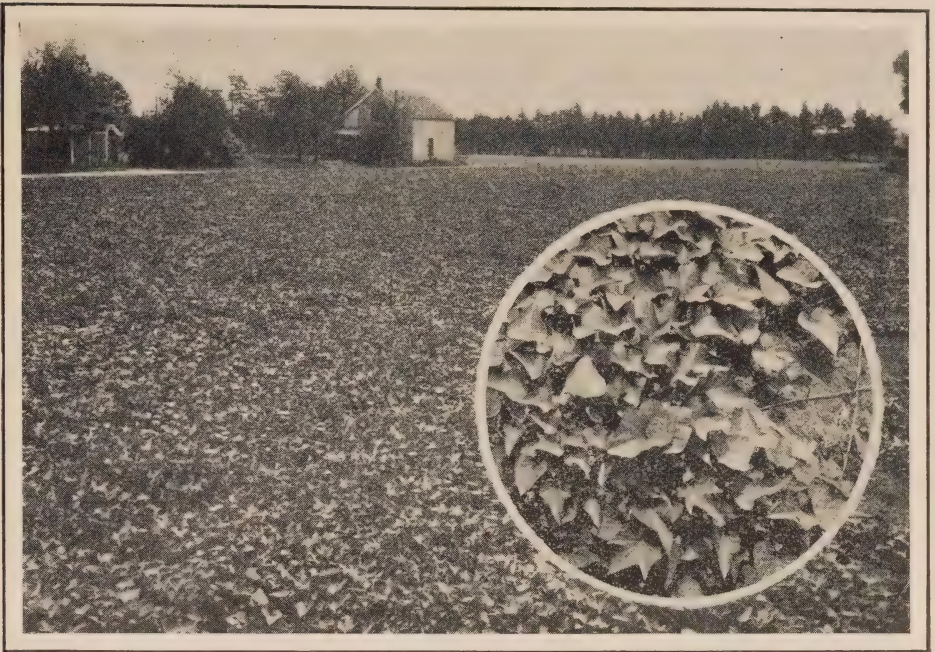
#### Contracts with Consumers

Power agreements hitherto made between rural customers and townships have been for a period of twenty years. When rural power service was inaugurated on a principle of service at cost, this period was considered advisable for all rural contracts in order to protect the interests of the rural consumers themselves, as partners embarking in an undertaking involving collective responsibility for a substantial capital investment, to be liquidated over a period of years. The contract provision thus constituted, as between consumers, a mutual guarantee with respect to service charges. Without such assurance extensions in the early years would have been greatly hampered.

As the number of consumers on the rural lines constructed increased and rural consumers, generally, throughout the Province became better informed as to the possible uses of electric power on the farm, rural electrical service became well established.

The Commission has, for some time, been considering the reduction of the "term" of the rural contracts, and, during the year approved a recommendation to the municipalities that all existing and future rural contracts be for a period of 5 years from the date on which the customer commenced to take and use electrical energy, instead of 20 years as hitherto. After the 5-year period has expired the contracts will continue in force on a year-to-year basis, unless cancelled by one year's notice, in writing, by either party.





#### RURAL ELECTRICAL SERVICE IN ONTARIO

Electric soil heat enables certain crops to be grown which cannot easily be produced commercially by other methods. Illustration shows a field of sweet potatoes grown in 1934 at Burlington, sprouts for which were produced by electric soil heat. The harvest greatly exceeded the grower's expectations

It is provided, however, that this change in contract term shall not take effect unless and until the Councils of all of the various townships forming part of each rural power district pass by-laws approving of such amendment in existing and future rural power contracts.

A consumer, who has a loan under The Rural Power District Loans Act, shall not be entitled to avail himself of cancellation of his rural contract with the township until after all obligations under the said loan have been discharged.

This proposed change in term of contract does not apply to "guarantee" contracts.

Towards the end of the year about 90 per cent of these townships passed the necessary by-law and five-year agreements are available in most rural power districts. It is expected that many of the remaining townships will pass the by-law, so that the new agreements will be available in practically all the Province.

At the end of this section a tabulation of the rural power districts shows the miles of line, the number of consumers and the rate schedules for each district of the several systems.





Delaware.....	N4 D3	139.59	666	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Dorchester.....	N4 D1	111.16	596	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Dresden.....	N14 D12	24.23	77	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Drumbo.....	N12 D5	58.98	265	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Dundas.....	N2 D1	114.51	761	1.30	2.21	1.63	2.21	2.64	2.85	3.96	4.91	5.60	7.33	8.82	3	1.25	0.75	10
Dunnville.....	N1 D9	19.33	104	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Dutton.....	N11 D3	47.40	174	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Elmira.....	N7 D3	24.45	87	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Elora.....	N5 D4	47.36	261	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Essex.....	N15 D7	88.04	456	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	0.75	10
Exeter.....	N4 D6	68.43	656	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Forest.....	N18 D6	41.65	149	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Galt.....	N6 D2	39.73	327	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	0.75	10
Georgetown.....	N5 D2	57.56	273	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Goderich.....	N8 D2	50.13	190	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Grantham.....	N44 D1	64.28	834	1.00	1.50	1.25	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	0.75	10
Guelph.....	N5 D3	94.87	572	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	0.75	10
Haldimand.....	N2 D8	57.89	292	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	0.75	10
Harriston.....	N8 D5	23.75	60	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Harrow.....	N15 D4	68.50	642	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	0.75	10
Ingersoll.....	N10 D3	181.25	613	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5.5	2	0.75	10
Jordan.....	N44 D2	37.09	399	1.05	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	0.75	10
Keswick.....	N3 D5	58.10	1,069	1.20	2.10	1.55	2.10	2.50	2.70	3.75	4.65	5.30	6.95	8.35	4	2	0.75	10
Kingsville.....	N15 D5	132.48	1,417	1.00	1.80	1.25	1.98	2.36	2.55	3.54	4.39	5.01	6.56	7.89	3	2	0.75	10
Listowel.....	N8 D8	80.75	346	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
London.....	N4 D2	196.26	2,170	0.90	1.65	1.15	1.75	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	0.75	10
Lucan.....	N4 D5	33.68	131	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Lynden.....	N2 D2	58.14	244	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Markham.....	N3 D1	121.34	912	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Merlin.....	N14 D15	94.13	329	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Milton.....	N13 D3	68.06	350	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Milvorton.....	N8 D9	41.42	173	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Mitchell.....	N8 D7	69.81	348	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	0.75	10
Newmarket.....	N3 D4	65.82	381	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Niagara.....	N1 D1	49.13	313	1.20	2.15	1.63	2.21	2.64	2.85	3.96	4.91	5.60	7.33	8.82	3	1.5	0.75	10

\*See footnote on page 84. †New rate 6 cents effective November, 1, 1934. ‡Lowbanks extension. §Suburban area.

Rural power district	Class	Rural rates													Gross consumption charges		Prompt payment discount		
		Miles of line	No. of consumers	Gross monthly service charge															
				Property number	1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B				
					\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	cents		cents	Rate for all additional cents
Norwich.....	N10 D1	111.89	491	1.35	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	0.75	10
Oil Springs.....	N18 D3	20.81	116	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Palmerston.....	N8 D6	38.06	110	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Petrolia.....	N18 D5	14.98	63	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Preston.....	N6 D1	145.80	1,037	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.25	0.75	10
Ridgetown.....	N14 D2	104.88	701	1.35	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
St. Jacobs.....	N7 D2	69.94	378	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	0.75	10
St. Marys.....	N9 D1	117.30	431	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
St. Thomas.....	N11 D1	168.82	1,134	1.35	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	0.75	10
Saltfleet.....	N17 D1	94.22	1,603	1.35	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	0.75	10
Sandwich.....	N15 D1	129.53	2,054	1.00	1.86	1.38	1.86	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3.5	1.5	0.75	10
Sarnia.....	N18 D4	87.78	1,220	1.35	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	0.75	10
Scarboro.....	N3 D2	86.56	816	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Seaforth.....	N8 D10	16.60	146	1.10	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Simcoe.....	N12 D6	74.52	363	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Stamford.....	N44 D4	8.37	300	1.30	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	0.75	10
Stratford.....	N8 D4	37.17	227	1.35	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	0.75	10
Strathroy.....	N4 D4	79.15	228	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Streetsville.....	N13 D1	104.89	452	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	0.75	10
Tavistock.....	N8 D1	81.33	294	1.45	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Thamesville.....	N14 D11	68.31	271	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Tilbury.....	N14 D14	63.34	263	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Tillsonburg.....	N10 D4	114.66	589	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	0.75	10
Wallaceburg.....	N14 D13	87.12	557	1.35	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10
Walsingham.....	N12 D7	108.46	478	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Walton.....	N8 D3	42.87	262	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Waterdown.....	N2 D3	71.03	970	1.20	1.89	1.39	1.89	1.89	2.22	2.44	3.33	4.17	4.72	6.22	7.44	2.5	1	0.75	10
Waterford.....	N12 D3	71.31	308	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Watford.....	N18 D7	17.75	56	1.50	2.33	1.72	2.33	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	0.75	10



Welland.....	N1	D5	286.50	2,674	1.00	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	0.75	10
Woodbridge.....	N16	D1	197.69	999	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	2	0.75	10
Woodstock.....	N10	D2	129.47	673	1.30	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	2	0.75	10

Total, Niagara system, 6,766.75; 45,697. \*See footnote on page 84. †See heading to first page of table.

GEORGIAN BAY SYSTEM

Alliston.....	S32	D1	23.57	141	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†7	2	0.75	10
Arthur.....	E13	D2	2.40	8	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10
Bala.....	GB13	D1	41.27	251	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Barrie.....	S4	D1	61.17	487	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Baysville.....	M10	D1	32.23	149	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Beaumaris.....	M7	D1	33.95	279	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Beaverton.....	W2	D1	27.56	340	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Beeton.....	S33	D1	1.80	5	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10
Bradford.....	S37	D1	27.07	82	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10
Bruce.....	E19	D1	63.35	283	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Buckskin.....	S24	D1	1.20	15	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10
Cannington.....	W3	D1	10.09	51	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Chatsworth.....	E3	D1	.....	22	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10
Cookstown.....	S35	D1	0.50	2	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10
Creemore.....	S10	D2	30.12	135	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Elmvale.....	S7	D1	25.50	156	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5.5	2	0.75	10
Flesherton.....	E1	D1	23	23	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†6.5	2	0.75	10
Gravenhurst.....	M4	D1	3.04	22	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Hawkestone.....	S9	D1	28.95	180	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	0.75	10
Holstein.....	E7	D1	.50	8	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10
Huntsville.....	M2	D1	28.70	101	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Innisfil.....	S31	D1	29.08	587	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†6.5	2	0.75	10
Lucknow.....	F24	D1	.11	2	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10
Mariposa.....	W9	D1	48.19	311	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10
Markdale.....	E1	D2	20.70	85	1.20	2.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	2	0.75	10
Meaford.....	E14	D1	1.00	5	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10
Medonte.....	S18	D1	9.14	56	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Midland.....	S1	D1	12.23	43	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10
Neustadt.....	E8	D1	.50	4	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10

†New rate 6 cents effective November 1, 1934. ‡Cedarhurst and Maple Beach Extensions. §Greenbank Extension. §§Berkeley Station Extension.

# RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1934

## GEORGIAN BAY SYSTEM—Continued

Rural power district	Class		Rural rates													Gross consumption charges		Prompt payment discount		
			Property number	Miles of line	No. of consumers	Gross monthly service charge														
	1B	1C				2A	2B	3*	4	5	6A	6B	7A	7B	First energy rate††	Second rate††				
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	cents	cents			cents		%	
Nottawasaga	S5 D1	8.22	99	1.25	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10		
Orangeville	E12 D1	22.88	79	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10		
Owen Sound	E2 D1	5.52	50	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	0.75	10		
Port Perry	W12 D1	49.42	370	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10		
Ripley	E24 D2	4.32	13	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10		
Sauble	E46 D1	11.45	56	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10		
Shelburne	E10 D1	18.44	50	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10		
Sparrow Lake	W1 D1	34.34	264	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	0.75	10		
Tara	E15 D1	25.75	112	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†7	2	0.75	10		
Thornton	S36 D1	8.00	31	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10		
Utterson	M8 D1	21.61	119	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10		
Uxbridge	W11 D1	62.15	211	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	0.75	10		
Wasaga Beach	S10 D1	16.68	636	1.25	2.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	2	.....	10		
Wroxeter	E22 D1	35.95	280	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†8	2	0.75	10		
Total, Georgian Bay system,			891.25	6,203	*See footnote on page 84.													†See heading to first page of table.		

††See heading to first page of table.

\*See footnote on page 84.

Total, Georgian Bay system, 891.25; 6,203.

## EASTERN ONTARIO SYSTEM

				1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	First energy rate††	Second rate††	Prompt payment discount
				\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	cents	cents	%
Alexandria	L15 D1	20.33	101	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	†7	2	10
Arnprior	QM10 D1	4.97	53	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Belleville	C38 D1	85.00	684	1.20	2.15	1.45	2.25	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	1.5	10
Bowmanville	C23 D1	29.16	126	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Brighton	C6 D1	10.65	62	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Brockville	L3 D1	99.17	667	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Carleton Place	C11 D1	21.59	79	1.20	2.15	1.50	2.25	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Campbellton	H5 D1	.50	1	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Chesterville	L5 D1	47.82	354	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Cobourg	C13 D1	97.22	469	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Colborne	C7 D1	36.75	212	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10





## CLASSIFICATION OF SERVICES FOR RURAL POWER DISTRICTS

When contracts between the consumer and the township have been executed, users of power in townships are supplied with electric service under general classes, according to the requirements and conditions of the individual consumer, as follows:

Class	Service	Class demand kilowatts	Phase	Volts	Fuse rating amperes (maximum)
1B	Hamlet Lighting.....	1.32	1	110	15
1C	“ “ “ “.....	2	1	220/110	35
2A	House Lighting.....	1.32	1	110	20
2B	Small Farm Service.....	2	1	220/110	35
3	Light Farm Service.....	3	1	220/110	35
4	Medium Farm Service.....	5	1	220/110	50
5	“ “ “ “.....	5	3	220/110	35
6A	Heavy Farm Service.....	9	1	220/110	100
6B	“ “ “ “.....	9	1 and 3	220/110	60
7A	Special Farm Service.....	15	1	220/110	According to load
7B	“ “ “ “.....	15	1 and 3	220/110	According to load

**Class 1: Hamlet Service**—Includes service to consumers (other than farm and power users) in hamlets, where four or more consumers are served from one transformer. Service is given under two sub-classes as follows:

**Class 1-B:** Service to residences or stores, including use of portable appliances, and permanently installed appliances not exceeding 1,320 watts.

**Class 1-C:** Service to residences or stores with electric range or ordinary permanently installed appliances greater than 1,320 watts. Where a combination of residence and store can be supplied from one service, the combination is billed as a single Class 1-C consumer. Special or unusual loads will be treated specially.

**Class 2-A:** House Lighting—Includes service to all consumers other than farm and power users that cannot be grouped as in Class 1.

**Class 2B: Farm Service, Small**—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for single-phase motors not exceeding 2 horsepower and electric range if motors and range are not used simultaneously, on a farm of fifty acres or less.

**Class 3: Farm Service, Light**—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for single-phase motors not exceeding 3 horsepower and electric range if motors and range are not used simultaneously.

**Class 4: Farm Service, Medium Single-Phase**—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for single-phase motors up to 5-horsepower demand and electric range if motors and range are not used simultaneously.

**Class 5: Farm Service, Medium 3-Phase**—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for 3-phase motors up to 5-horsepower demand and electric range if motors and range are not used simultaneously.

**Class 6: Farm Service, Heavy**—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for motors up to 5-horsepower demand and an electric range, or 10-horsepower demand without an electric range. Single- or three-phase service will be given at the discretion of the Hydro-Electric Power Commission of Ontario.

**Class 7: Farm Service Special**—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for 3-phase motors from 10- to 20-horsepower demand and electric range. Single or three-phase service will be given at the discretion of the Hydro-Electric Power Commission of Ontario.

Note: Class 2B is the service usually supplied to farms of fifty acres or less and Class 3 is the service usually supplied to larger farms. More than 90 per cent of new contracts for farm service are in one or other of these classes.

## SECTION IV

### HYDRAULIC ENGINEERING AND CONSTRUCTION

Mining and industrial activity in north western Ontario made it necessary for the Hydraulic department to undertake development work and to make improvements and extensions to plants at a number of points. A new power development was commenced at Rat rapids at the outlet of lake St. Joseph, the power from which is required in a mining district about twenty-five miles north of the lake.

Coincident with the development of power, several transportation routes were improved, at the request of the Department of Lands and Forests. The Root river navigation system, completed in October, 1934, enables freight to be shipped more economically than formerly from Hudson, on the Canadian National railway, to points on lake St. Joseph. The work involved the construction of three dams, three marine railways for the transport of loaded scows past the dams, channel straightening on the Root river, a standard gauge railway 3.6 miles long, and docks with freight-handling equipment at the termini of the railway.

Due to increased loads and water supply conditions, consideration has been given to the installation of an additional unit at the Ear Falls development.

The original wood-stave conduit at the Eugenia development, installed in 1914-15, was replaced during 1934. The replacement of the pipe was preceded by the construction of a test section, in which various types of end joints for wood staves were incorporated and tested. Repairs to concrete structures were made at the Cameron Falls development on the Nipigon river.

Engineering assistance was given to the Public Utilities Commission of the town of Almonte in connection with the addition of a generating unit in one of the town's power plants, and to the village of Cobden in the investigation of the failure of a portion of the dam at the local power plant.

Field investigations in connection with the proposed conservation dam on the Grand river at Waldemar were continued, and a report prepared dealing with estimates of cost. Engineering assistance was given to the Government with respect to allocating the cost among interested municipalities.

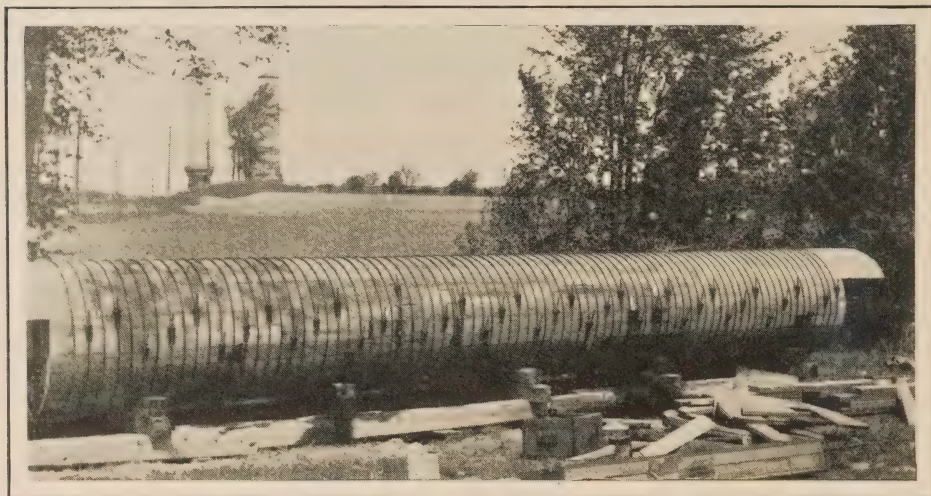
## NIAGARA SYSTEM

### **Queenston-Chippawa Development**

In April an inspection was made of the Queenston-Chippawa power canal, to observe, in so far as that is possible with the canal in service, the condition of the concrete lining and to ascertain the effect of weathering of the rock. It does not appear that any extensive repairs to the concrete or protection of the rock faces are presently necessary.

### **Chats Falls Development**

Plant capacity tests were made at Chats falls in November, January and April when the plant's energy output was curtailed due to low flow in the Ottawa river, and again during the flood period in May when, due to reduced head, the peak capacity of the plant was decreased.



**EUGENIA FALLS DEVELOPMENT**  
Test section of wood-stave conduit

## GEORGIAN BAY SYSTEM

### **Eugenia Falls Development**

Reference was made in the last Annual Report to the necessity of replacing wood-stave conduit No. 1 at the Eugenia development. This conduit is 3,350 feet in length, has an internal diameter of 46 inches, and was built in 1914-15. A section, 111 feet long, adjoining the headworks, has a protective envelope of concrete, and is in good condition. The remainder was replaced.

Reconstruction of the conduit commenced early in August, and was completed on October 27, 1934. The new pipe line is the same length and diameter as the former one. The staves and mud sills were creosoted, and at two places, to support the conduit, earth embankments were substituted for trestles. Gravel ballast was used on the embankment.



## THUNDER BAY SYSTEM

### **Cameron Falls Development**

Repairs to concrete structures at the Cameron Falls development on the Nipigon river, discontinued with the onset of cold weather in November, 1933, were recommenced in July, 1934, and are expected to be completed before winter.



**WANAPITEI LAKE STORAGE—SUDBURY DISTRICT**  
Looking upstream from end of main dam; old dam in centre of view

## **NORTHERN ONTARIO PROPERTIES**

### **Sudbury District**

At the outlet of Wanapitei lake a survey was made to determine what means should be adopted to ensure maintenance of water supply to the power plant on the river at the low lake levels which might be experienced before the spring break-up.

At the McVittie and Coniston plants, surveys were made with a view to the reconstruction of the dams. Engineering assistance was given to the Operating department in connection with repairs to the timber crib dam at the Coniston plant. Leakage through the dam was eliminated by sheeting the upstream apron, the floors of sluiceways, and the sides and upstream faces of cribs.

### **Abitibi District**

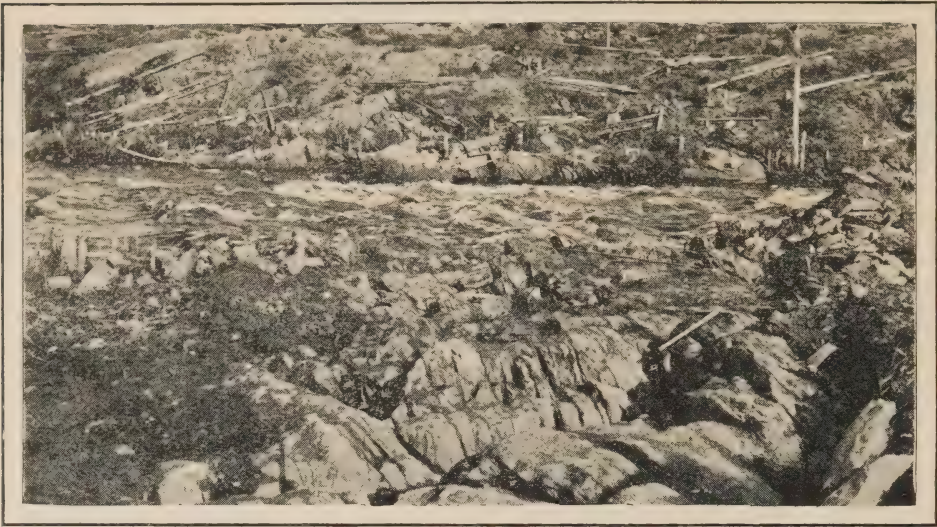
#### **Abitibi Canyon Development**

Progress was made during the year in salvaging material and clearing up the site at the Abitibi Canyon development. Improvements were also made at the operators' colony. The settlement of outstanding claims in connection with the construction of the plant has received considerable attention.

### **Patricia District**

#### **Ear Falls Development**

Increased load on the Ear Falls plant, combined with low head due to high-water conditions on the English river during the past year, taxed the capacity of the development. The plant contains a single unit, rated at 5,000 horsepower under a head of 36 feet, which has been in continuous operation since February, 1930. The operating record has thus been satisfactory. To guarantee continuous



#### RAT RAPIDS DEVELOPMENT—ALBANY RIVER

A development to supply power to a mining district in Northern Ontario, Main dam site at outlet of lake St. Joseph, looking north-east

operation, as well as to meet the increased load demands, preliminary steps have been taken for the installation of a second unit.

Flow conditions on the English river required close attention during June, July and August. The river discharge was the highest on record dating from 1914.

#### Rat Rapids Development

Inception of mining development in the district to the north of lake St. Joseph has created a demand for power, which will be supplied from a small development at Rat rapids at the outlet of lake St. Joseph.

The last Annual Report referred to preliminary surveys at three power sites on the Albany river, about twenty-five miles south of the properties to be served. Further investigation resulted in the selection of the site at the outlet of lake St. Joseph.

The development comprises a main dam at the Rat Rapids outlet of lake St. Joseph, a diversion dam at the Cedar Rapids outlet, and a short section of secondary dam about 200 feet south of the main dam, in which the power-house intake is incorporated.

The dams are rock-filled timber crib structures with sluiceways to provide ample discharging capacity.

The power house contains a single, horizontal unit, comprising a four-runner turbine rated at 1,200 horsepower under a 14.5 foot head, 164 r.p.m.,





**RAT RAPIDS DEVELOPMENT—ALBANY RIVER**

**A Source of power for Northern Ontario—Wing dam and power house intake**

directly connected to a horizontal generator. The turbine flume and power-house substructure are of concrete, the superstructure being built of timber cut locally.

At the end of the year, the dams were approaching completion, considerable progress had been made on excavation for power house and tailrace, and a start had been made on placing concrete in the turbine chamber.

#### **Root River Transportation System**

The navigation and improvement works on the Root river were devised, at the instance of the Government and mining companies, to provide transportation facilities for machinery and supplies required in mining development to the north of lake St. Joseph. Transportation of freight into the district has been by aeroplane and tractor in winter, and by aeroplane in summer. The improved route reduces greatly the labour and expense of transporting goods.

The works overcome a difference in elevation of approximately 65 feet between lac Seul and lake St. Joseph. Dams and marine railways were constructed on the Root river, and a standard gauge railway, 3.6 miles in length across the height of land, completes the scheme. Freight is transported along the Root river by scows, which are drawn up the three marine railways overcoming differences in elevation of 6, 10, and 14 feet respectively, to the southern terminus of the standard gauge railway, where it is transferred to two standard flat cars hauled by a 13-ton gasoline locomotive and conveyed along the railway to the northern terminus on lake St. Joseph. Here it is again transferred to scows for final distribution.





ON A TRANSPORTATION ROUTE IN NORTHERN ONTARIO  
Crest of Nattaway Fall—Root River



IMPROVED TRANSPORTATION FOR NORTHERN ONTARIO  
Marine railway at Lynx Fall, Root river, Overcoming difference in elevation of ten feet



**IMPROVED TRANSPORTATION FOR NORTHERN ONTARIO**

Root river route—Winding engine, portage car and scow



**IMPROVED TRANSPORTATION FOR NORTHERN ONTARIO**

Standard gauge railway connecting lac Seul and lake St. Joseph, Root river route



Construction commenced on August 8, at Nattaway portage, and ceased on October 20. The system was in use from that time until the close of navigation. A small amount of work remains to be done, the major part of which is the completion of grading, ditching and ballasting the railway.

At the request of the Department of Lands and Forests, a survey was made at Pelican falls, about five miles west of Sioux Lookout, to investigate the possibility of improving navigation at this point.

## HYDRAULIC INVESTIGATIONS

Reference was made in the last Report to the assistance given to the Utilities Commission of the town of Almonte in connection with the installation of an additional generating unit in that town's hydro-electric station. The installation was completed early this year, and the generator and turbine subjected to the usual acceptance tests, which were carried out by the Commission's staff.

The reconstruction of a portion of the Temiskaming dam was of interest to the Commission on account of its effect on the flow of the Ottawa river. The dam is situated at the foot of lake Temiskaming. During the exceptionally high flood flows in the spring of 1928, due to a poor foundation, a number of piers in the Quebec section of the dam failed.

Before reconstruction commenced, the Dominion Government called a meeting of all interested parties. The Commission thus had an opportunity of studying the situation and offering suggestions on design and construction.

At the request of the municipality of Cobden, an inspection was made of the dam and power house belonging to the village, after the failure of a portion of the dam in the spring of 1934. Recommendations with regard to rehabilitation of the development were offered.

Routine work included the collection of data referring to river stages and flow in various parts of the Province, much of this being in co-operation with the Dominion Water Power and Hydrometric Bureau. Inspection of Niagara river diversion records was also made.

A survey was made of the power site at Workman falls on the Gull river near Minden, and preliminary estimates of the cost of a development were prepared.

Field investigations in connection with the proposed conservation dam at Waldemar were continued during the year, foundation conditions being investigated by means of test pits. A report was submitted to the Minister of Lands and Forests in February.



## SECTION V

### ELECTRICAL ENGINEERING AND CONSTRUCTION (STATION SECTION)

#### NIAGARA SYSTEM

##### Generating and Switching Stations

**Generating Stations on the Niagara River**—At Queenston generating station equipment is being installed on a number of the units to improve the control of the frequency and load. A sound-proof room is being added in the station where welding and grinding required in the repair of turbine runners will be done.

In the Ontario Power plant an improved telephone and signal system was installed. The north end of the generating station, which was unoccupied, was partitioned off for a machine shop.

##### Transformer and Distributing Stations

**Niagara District**—At the Provincial Paper Limited plant at Thorold, and at the Interlake Tissue Mills Company plant at Merriton, the electric steam generating stations referred to in last years Report were placed in service in January, 1934.

The Beatty-Welland distributing station, which was destroyed by fire in August, 1933, was rebuilt on the old site and placed in service in February, 1934. A bank of three 250-kv-a. transformers was obtained from system reserve.

At Smithville distributing station, improvements were made in the metering equipment.

At Welland transformer station and at Thorold transformer station metering equipment for totalizing the 12,000-volt load was installed. New metering equipment was installed in the feeder at Ohio Brass Company's plant in Stamford township and in the feeder at Maple Leaf Milling Company's plant at Port Colborne.

To supply power to the northern portion of Jordan rural power district, a new pole-type station of 450-kv-a. capacity, known as Louth distributing station, was erected and placed in service in July. Three new 150-kv-a. transformers held in system reserve were used for the installation.

**Hamilton and Dundas District**—At Dundas transformer station the relays controlling the 110,000-volt line circuit-breakers were replaced with high-speed, distance, directional, phase and ground relays.

**Toronto and York District**—At Toronto-Strachan transformer station the installation of the improved relaying equipment reported last year, was completed.

At Toronto-Bridgman-Davenport transformer station a standby station-service bank of transformers was installed, using two 75-kv-a. transformers obtained from system reserve.

At Toronto-Wiltshire transformer station, differential relaying equipment was installed for control of the 110,000-volt bus, and improvements were made in relaying equipment for the 13,200-volt feeders.

At Toronto-Leaside transformer station, potential-indicating and synchronizing devices were installed on all three 220,000-volt circuits. This equipment was tested during the year and placed in permanent operation in October.

Ringwood distributing station was built and placed in service in January to supply power to Stouffville and a portion of Markham rural power district. A 300-kv-a. transformer was obtained from system reserve and used for this installation.

At Mount Joy, Kleinburg and Woodbridge distributing stations, graphic wattmeters were installed, and at Milton improvements were made in the metering equipment.

**London District**—At London transformer station, equipment for another 13,200-volt feeder was installed, also additional relays for control of the 110,000-volt lines to Woodstock transformer station.

**Kitchener District**—At Kitchener transformer station, additional relays were installed for control of two 110,000-volt lines to Preston transformer station.

**St. Thomas District**—At St. Thomas transformer station, additional ground relays were installed for control of the 110,000-volt lines to Niagara and Queenston transformer stations.

**Brant District**—At St. Williams distributing station and at Port Rowan, improvements were made in the controlling and metering equipment.

At the request of Paris Hydro-Electric and Water Commission engineering assistance was given and equipment was purchased and installed for an additional 2,300-volt feeder, and for grounding devices in the street-lighting feeders in Paris municipal station.

### GEORGIAN BAY SYSTEM

**Severn District**—At Midhurst distributing station, improvements were made in the protective equipment, and at Coldwater distributing station a graphic wattmeter and a graphic reactive meter were installed and improvements were made in the other metering equipment.

**Eugenia District**—At Eugenia generating station the old storage-battery was replaced by a new 60-cell battery, and improvements were made in the grounding of the station and in the metering equipment.

At Owen Sound city limits a single-phase metering equipment was installed to measure the power supplied to Owen Sound rural power district.

**Muskoka District**—At Hanna Chute generating station the gear-driven oil-pump on the generator was replaced by a motor-driven pump.

At Falkenburg distributing station, improved protecting equipment was installed.

**Bala District**—At McTier distributing station a new structure was built and both the high and low-voltage equipment transferred to it from the old structure. The low-voltage distribution was changed from 2,300 to 4,000 volts and the station grounding was improved.

### EASTERN ONTARIO SYSTEM

**110,000-volt Transformer Stations**—At Howard Smith Paper Mills Company at Cornwall the Commission erected a 20,000-kv-a. transformer station, also an electric steam-generator to supply the Company, under contract, with secondary electric power for the generation of process steam. A 20,000-kv-a., 60-cycle, three-phase, 105,000/6,600-volt, water-cooled transformer, and a 20,000-kw., 6,600-volt electric steam-generator were purchased and placed in service in August.

At Ottawa transformer station, additional telephone equipment was installed to provide proper operating facilities for the new 110,000-volt transmission line from Ottawa to Cornwall.

**Central Ontario District**—Marmora distributing station was rebuilt at a new location to allow widening of No. 7 highway.

At Sidney transformer station a chain-link fence was built around the 6,600-volt lightning-arresters.

At Oshawa distributing station No. 1 a sectionalizing disconnecting-switch was installed in the 44,000-volt bus.

At Hydro-Electric Power Commission pulp mill (Campbellford) the 600-volt switching equipment in the mill was overhauled. Drop-out-type fuses were installed for automatic protection on the 44,000-volt line entering the distributing station.

At Belleville switching station, directional relays were installed.

**St. Lawrence District**—At Cornwall transformer station, changes were made to receive power at 110,000 volts from Gatineau Power Company over a new line from Ottawa transformer station, and to supply Howard Smith Cornwall (Steam) transformer station at the same voltage. A battery and motor-generator charging-set were installed, and the oil circuit-breakers were equipped for electrical operation. Changes were made in the relaying equipment for the control of the high-voltage lines, and additional telephone equipment was installed to aid in operation. An automatic oil circuit-breaker was installed in the Maxville feeder.

At Brockville distributing station, switching equipment for a second 44,000-volt line is being installed.

At Prescott distributing station improvements were made in the relaying equipment, and a 24-volt battery and charger were installed.

**Rideau District**—Perth rural station was erected on the site where Perth rural metering equipment was located, and a 75-kv-a., 2,300/4,600-volt, single-phase transformer was purchased and placed in operation in July to supply power to the district at 4,600 volts instead of 2,300 volts as was done previously.



A new station known as McDonald's Corners distributing station was erected to supply single-phase power to the hamlet and nearby area. A 25-kv-a., 26,400, 240-120-volt transformer was purchased for the installation.

**Madawaska District**—On the premises of the Phoenix Molybdenite Corporation a 550-volt metering equipment was installed to measure the power supplied to the customer.

### THUNDER BAY SYSTEM

**Generating Stations**—At Cameron Falls generating station a Micromax recorder was installed to record the total load of the Thunder Bay system.

**Transformer Stations**—At Port Arthur transformer station improvements were made in the relaying system to control the 110,000-volt lines.

At Nipigon Corporation mill a graphic wattmeter was installed.

The Provincial Paper (steam) transformer station referred to last year was completed and placed in service in November.

At the request of Little Long Lac Gold Mines Limited, the Commission assisted in the design and installation of a 1,500-kv-a. step-down station to distribute the power supplied to the mining company from Cameron Falls transformer station. A bank of three 500-kv-a., 60-cycle, 44,000/2,400-volt transformers, and a bank of three 150-kv-a., 2,300/550-volt transformers were purchased for the installation and the station was placed in service in September. The Commission's metering equipment to measure the Company's load was installed in the Company's station.

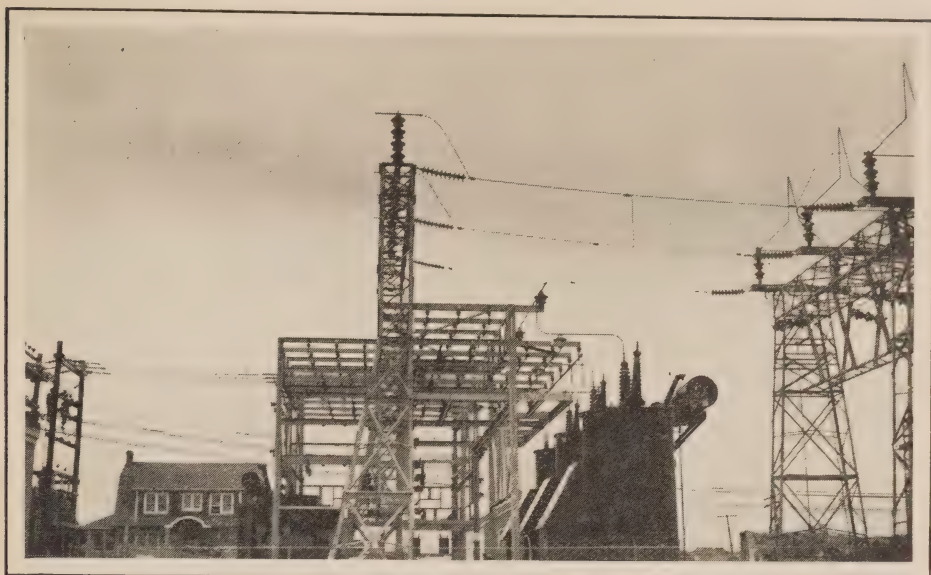
### NORTHERN ONTARIO PROPERTIES

**Nipissing District**—At North Bay distributing station No. 1 the capacity was increased by the installation of a 750-kv-a., three-phase transformer obtained from Georgian Bay system reserve. The indoor lightning-arresters were replaced by outdoor-type, the switching equipment was re-arranged, alterations were made to the station lighting, a 24-volt battery and trickle-charger were installed and instrument-transformers for totalizing the load added.

At Callander (Canadian Timber Company) distributing station three 10-kv-a. transformers were connected into the circuit to reduce the customer's voltage to 550-volts.

**Sudbury District**—At Stinson generating station, metering equipment was installed on the 22,000-volt feeder supplying power to Falconbridge Nickel Company.

**Abitibi District**—At Abitibi Canyon development two 48,500-kv-a. generating units are in service. During the year partial equipment was installed in the station for a third 110,000-volt transmission circuit. A 1,500-kv-a., 13,200/575-volt, three-phase, indoor-type transformer was transferred from Niagara system reserve and installed in the generating station to supply 575-volt power for the operation of the sluice-gates and the heating and lighting of the building. A similar 1,500-kv-a. transformer transferred from Niagara system was converted to outdoor type and installed outdoors in the operators' colony, where it supplies 575-volt power for heating and lighting the houses in the vicinity of the development.



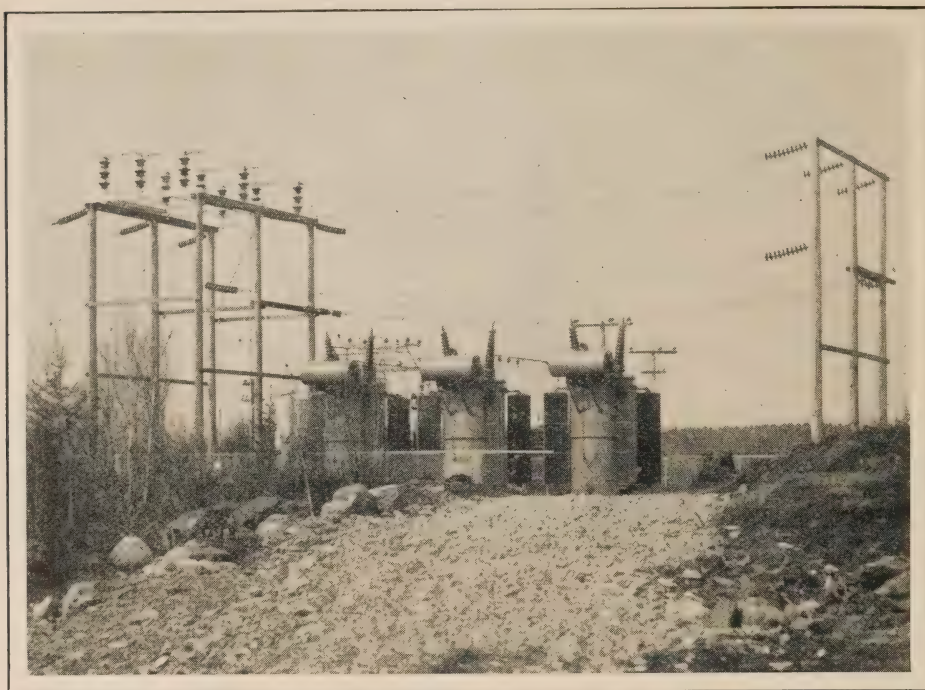
**KIRKLAND LAKE TRANSFORMER STATION—NORTHERN ONTARIO PROPERTIES**

Supplying power to the Canada Northern Power Corporation for use in the gold mining district of Kirkland Lake. Three 9,500-kv-a. transformers, 121,000/13,200 volts

At Kirkland Lake the Commission erected a transformer station to supply, under contract, power to Canada Northern Power Corporation. Arrangements were made for a temporary connection direct to the high-voltage bus at the customer's Kirkland Lake station, and power was delivered in February, 1934. Construction of the permanent station to supply power to the Corporation and other customers was commenced in February and the station was placed in service on July 26, 1934. Power is received at a nominal voltage of 110,000 volts from Abitibi Canyon development, 153-miles distant. The present installation provides for one incoming 110,000-volt circuit from the development, an outgoing 110,000-volt circuit to Matachewan transformer station and three low-voltage feeders. The equipment consists of one bank of three 9,500-kv-a., single-phase, water-cooled transformers, and one 15,000-kv-a. (circuit-capacity), 13,200-volt, under-load voltage-regulating equipment. The transformers were manufactured for Ontario Power Service Corporation, and are used at this station to step the voltage down to a nominal bus voltage of 13,200. The regulating equipment will reduce the bus voltage a maximum of 15 per cent in eight equal steps to meet the voltage requirements of customers.

Canada Northern Power Corporation and Bidgood-Kirkland Gold Mines Limited are supplied from the regulated-voltage bus through separate oil circuit-breakers. A feeder is provided from the unregulated bus whereby in case of emergency 13,200 volt power may be supplied through fuses over the 110,000-volt circuit to Matachewan transformer station. No 110,000-volt, oil circuit-breakers have been installed. Air-break disconnecting-switches are provided between the incoming line and the line to Matachewan, also between the incoming line and the transformer bank. In case of an electrical failure in the station, a single-phase switch automatically grounds one phase of the high-voltage bus and causes the line circuit-breaker at Canyon to open. The





**MATACHEWAN TRANSFORMER STATION—NORTHERN ONTARIO PROPERTIES**

Supplying power to gold mining companies in the Matachewan area

Three 1,500-kv-a. transformers, 121,000/27, 720-13,860 volts

transformer air-break disconnecting-switch then opens to isolate the fault and at the same time clears the automatically grounded phase. While the station is outdoor-type, a one-storey building was erected to house the water-pumps and oil-filters. A pond with sprays is provided to cool the water circulating in the transformers and a connection is made to the township water-main. The meters, relays, and remote-control equipment are located in Canada Northern Power Corporation's station.

Metering equipment was installed in Bidgood-Kirkland Gold Mines Limited station to measure the power supplied this customer on the 12,000-volt bus.

Matachewan transformer station was erected in Powell township to distribute power to customers in the Matachewan area. A bank of three 1,500-kv-a., 121,000/27,720-13,860-volt transformers was purchased for the installation and is connected to the transmission line from Kirkland Lake transformer station through an air-break disconnecting-switch. One 26,400-volt feeder supplies power through an oil circuit-breaker to Young-Davidson mine of Hollinger Consolidated Gold Mines Limited. Matachewan Consolidated Gold Mines Limited is supplied with power over a 26,400-volt line tapped from the same feeder. Metering equipment was installed in each customer's station on the 550-volt side of the transformers to measure the power supplied for the respective loads. An emergency connection is provided whereby 13,200-volt power may be supplied from Kirkland Lake transformer station over the 110,000-volt line. The station was placed in service in April, the transformers having been hauled during the winter 26 miles from the railway terminal at Elk Lake to





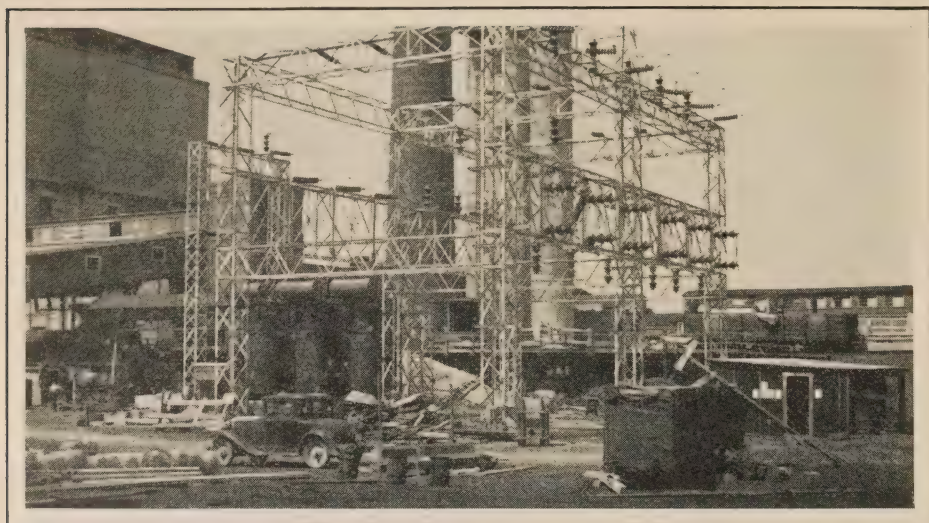
#### WINTER TRANSPORTATION IN NORTHERN ONTARIO

A tractor pulling 1,500-kv-a. transformer to Matachewan Transformer Station ascending Moyneur's Hill, March, 1934. (See also Frontispiece)

the site. They were transported on special skids, and in order to cross bridges along the route, it was necessary to reduce the weight of the transformers by replacing the oil in the tanks with nitrogen gas. (see frontispiece)

At Smooth Rock Falls a transformer station with electric steam-generators was erected at the plant of the Abitibi Power and Paper Company to supply the Company, under contract, with secondary electric power to generate steam. Two 25,000-kw. electric steam-generators were purchased for the installation and a bank of three 13,000-kv-a., 121,000/6, 600-volt, water-cooled transformers, which were built for Ontario Power Service Corporation, was used to supply the necessary 6,600-volt power. The station was completed and placed in service on August 1, 1934.

At Hunta switching station, where steel structures had already been provided by Ontario Power Service Corporation, thirteen 110,000-volt dis-



**TRANSFORMER STATION AT SMOOTH ROCK FALLS—NORTHERN ONTARIO PROPERTIES**  
Supplying power for generating process steam utilized in the manufacture of pulp and paper.  
Three 13,000-kv-a. transformers, 121,000/6,600 volts

connecting-switches were installed in order to provide switching facilities between the four circuits from Abitibi Canyon development, and the two circuits to Copper Cliff and two circuits to Iroquois Falls, Kirkland Lake and Matachewan transformer stations. Eight of the disconnecting-switches were purchased by Ontario Power Service Corporation while the remainder were purchased by the Commission direct from the manufacturer. A chain-link fence was built around the structure.

**Patricia District**—At Ear Falls generating station an automatic voltage-regulator and pilot exciter were purchased and installed.

**St. Joseph District**—For Rat Rapids development on the Albany river, a design for the superstructure and electrical equipment was made and the equipment secured for the installation. The generator was obtained from Calabogie development where it was in storage, and three 333-kv-a. transformers were purchased for step-up to 22,000-volts to supply the transmission line to Central Patricia Gold Mines Limited and Pickle Crow Gold Mines Limited. The equipment is now being transported to the site.

### ADMINISTRATION BUILDING

Drawings and specifications for an eighteen-storey Administration building, incorporating structural-steel frame, also an alternative design for a reinforced-concrete frame were issued and request for tenders advertised on February 1, 1934.

Tenders were received on March 7, and a contract with Anglin-Norcross Ontario Limited was executed on April 30, 1934, incorporating the reinforced-concrete frame. This contract was subsequently amended to cover only a six-storey building and penthouse with provision for future extension of the building as originally planned. At the end of the fiscal year the excavation was complete, the foundations were installed and the structural work was proceeding.



## SECTION VI

### TRANSMISSION, DISTRIBUTION AND RURAL SYSTEMS

#### TRANSMISSION SYSTEMS

The volume of transmission work materially increased over 1933, important additions being made in serving new steam and mining loads.

An important extension to high-voltage lines in the Eastern Ontario system was made by the construction of a line between Ottawa and Cornwall to meet industrial demands at Cornwall. These loads will be supplied from the Gatineau, 60-cycle contract.

The greatest activity in line construction was in connection with the Northern Ontario Properties. During the winter of 1933-34, in addition to some lower voltage lines, 96.34 miles of 132,000-volt lines were constructed. The surveys and the major part of the construction of these lines were carried on during severe weather conditions, heavy snowfall and temperature readings as low as 68 degrees below zero, being reported. Ontario Power Service Corporation lines taken over in 1933 were completed and placed in service.

Rehabilitations of lower voltage lines fifteen or more years old were continued. There were over seventy specific jobs of this type, the average expenditure per job being comparatively small.

As a result of the foregoing extensions, the capital invested in transmission lines and equipment was increased during the year by approximately \$900,000.

The following synopsis shows, by systems, the work completed during the year. At the back of the Report a map is included showing all transmission lines and stations. Summary tables respecting transmission lines will be found in Appendix II.

#### NIAGARA SYSTEM

##### High-Voltage Lines

Between Fonthill junction and Pelham junction, 2.52 miles of inactive 190,000-circular-mil copper circuit were removed from the 90,000-volt line to provide material for low-tension revision work in the vicinity of Thorold.

Between junctions on the former Toronto Power 60,000-volt line and Port Colborne junction, a total distance of 19.17 miles, the existing 60,000-volt, steel-tower line was reinforced by the addition of tapered armour rods to the conductors, festoons to the ground cable and special type lock nuts to the towers.



### 26,400-Volt Lines

Rehabilitation was completed of the 4,000-volt line between Mount Joy and Ringwood distributing stations to include a 26,400-volt circuit, pole-top construction.

Between London transformer station and Lucan distributing station, a distance of 21.37 miles, one 26,400-volt circuit was established by reinsulating and restringing one circuit on the 13,200-volt line between London and Broughdale, and replacing the double-circuit construction between Broughdale and Lucan with a single 3/0 a.c.s-r.\* circuit.

At Ayr junction and Paris municipal station new swivel-type air-break switches were erected. The one at Paris municipal station replaced an old disconnecting switch.

In the Stratford, Brant, Kent and St. Clair districts, reinforcements were made to 26,400-volt lines.

### Other Lines

Between Lundys Lane and Holland road, near Niagara Falls, 2.60 miles of 12,000-volt line was diverted due to revision of the highway.

On the single-circuit line between Whirlpool junction and Queenston quarries, 1.10 miles of No. 4 copper conductor was replaced by No. 2 a.c.s-r.

Between a junction point on the Chippawa 12,000-volt line and the Norton Company, a distance of 600 feet, the old single-circuit line was rebuilt with two circuits of 190,000 circular-mil copper conductors. A switching structure at this junction became unnecessary and was removed.

Between Ontario Power transformer station and Chippawa junction, 2.43 miles, the circuits of an old 12,000-volt line were removed leaving the poles to carry H.E.P.C. telephone circuits and attachments of the Stamford rural power district.

Relocation of 1,800 feet of 13,200-volt line was completed to clear construction operations at the filtration plant near Leaside transformer station.

Between Aylmer junction and Port Stanley, 10.03 miles, the line capacity was increased by replacing the single-circuit of No. 2, a.c.s-r. with 1/0 a.c.s-r.

Increased line capacity, made necessary by new steam loads in the Thorold district, was made available by rebuilding the existing 12,000-volt line between Thorold transformer station and a point near the Provincial Paper Co., and by extending a new single-circuit line from this point to the Interlake Tissue Company. The rebuilt portion, 1.11 miles, consists of one circuit of 477,000 circular-mil a.c.s-r. and one circuit of 336,400 circular-mil a.c.s-r., the remainder 0.48 of a mile, consists of a single-circuit of 336,400 circular-mil a.c.s-r.

Line facilities to St. Catharines were improved by revisions made to two 12,000-volt lines between Thorold transformer station and Merritton switching station. Portions of 115,000 circular-mil copper conductor were replaced by 190,000 circular-mil copper on the single-circuit line, and the circuits of 173,000 circular-mil aluminum conductor on the double-circuit line were paralleled giving, in effect, two single-circuit lines having the capacity of 190,000 circular-mil copper, fed directly from Thorold transformer station. The work also

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\*a.c.s-r—Aluminum cable, steel-reinforced



**TRANSMISSION LINES—NORTHERN ONTARIO PROPERTIES**

Wood-pole, 132,000-volt transmission line near Bourkes on the line between Iroquois Falls and Kirkland Lake

included the replacement of all defective cross arms and insulators, and the complete revision of the old switching station at Merritton.

A portion of 12,000-volt line between Canada Steel junction and Empire Cotton Mills in the Welland district was removed from private property to city streets.

Reinforcement of 13,200-volt lines was made in the Woodstock and Cooksville districts.

Overhead transmission line crossings of railways and communication companies' works were reinforced to conform to regulations of the Board of Railway Commissioners of Canada in the Woodstock, St. Thomas, Brant, Dundas and York districts. This work involved the overhauling of crossings which were generally fifteen or more years old.

## GEORGIAN BAY SYSTEM

### **Severn District**

Improvement of service to power customers on the 22,000-volt line between Waubauskene switching station and Midland was attained by the revisions of circuits on two pole lines between Waubauskene switching station and Tiffin junction. One circuit of 2/0 aluminum conductor between Waubauskene switching station and the Wye river was removed from the double-circuit line, the remaining circuit 9.64 miles was converted to pole-top construction. A further portion, 1.76 miles, was relocated and rebuilt to parallel the other single-circuit, wood-pole line, and the two lines extended through to the Aberdeen tap. This work included the rearrangement of switching to co-ordinate the new arrangement of lines, also diversions of the remaining portions in conformity with highway revisions.

### **Eugenia District**

Railway and telephone crossings were revised and reinforced throughout this district in accordance with the Board of Railway Commissioners' specifications. Some pole-butt treatment, replacement of defective insulators and additional guys were required.

## EASTERN ONTARIO SYSTEM

### **110,000-Volt Lines**

Between Ottawa junction and Cornwall transformer station, a distance of 54.14 miles, a single-circuit, 110,000-volt steel-tower line, including a telephone circuit, was constructed. The steel towers are of similar design to those of the Smiths Falls-Kingston line. Conductors are 4/0 a.c.s-r. in flat configuration with one 5/16-inch, galvanized, crucible-steel, ground cable. At the Ottawa end a circuit was added to the existing steel-tower portion of the 110,000-volt line between Ottawa junction and Smiths Falls, an additional length of 0.68 of a mile. Particular attention was paid to obtaining a low ground resistance. Towers showing a resistance to ground in excess of 10 ohms were equipped with a ground network of copper conductors buried 18 inches.

Between Cornwall transformer station and Howard Smith Cornwall (steam) transformer station, construction of 2.64 miles of 110,000-volt, twin-pole line was completed. This line has 3/0 a.c.s-r. conductors and one 1/4-inch galvanized-steel ground cable.

These lines were installed to meet increased 60-cycle power requirements in the St. Lawrence district.

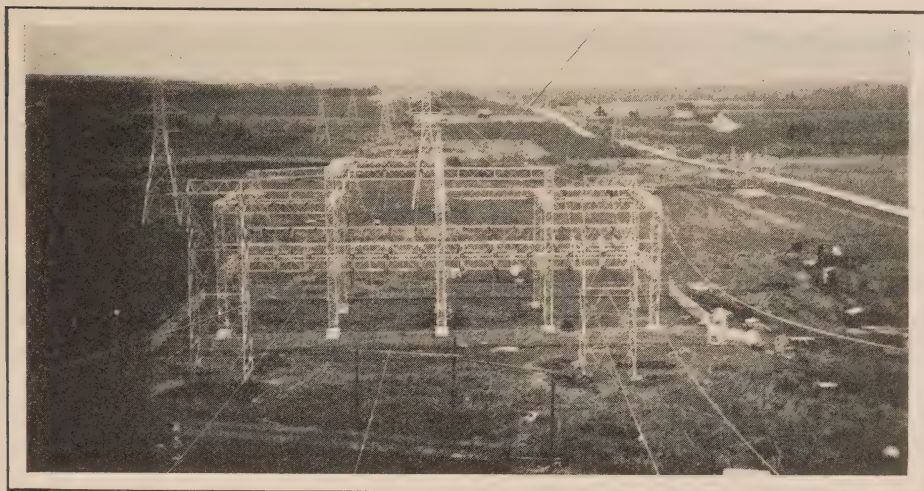
Tapered armour rods were installed on 110,000-volt line conductors between Smiths Falls and Kingston, 49.63 miles.

### **Central District**

Transpositions were rearranged on the 44,000-volt line between Norwood and Auburn switching stations, 17.89 miles, in order to co-ordinate this power line with paralleling lines of a telephone company.

Equipment on the Deseronto junction structures was lowered and rearranged and a new set of disconnecting switches installed.





TRANSMISSION LINES—NORTHERN ONTARIO PROPERTIES  
Hunta switching structure, showing incoming 132,000-volt lines

Power line crossings of railway and telephone lines were reinforced in accordance with specifications of the Board of Railway Commissioners of Canada.

#### St. Lawrence District

Between Cornwall transformer station and Alexandria, 20.65 miles, dead-end clamps and defective insulators were replaced and tapered armour rods were installed on the No. 2 a.c.s-r. conductor.

### THUNDER BAY SYSTEM

The 110,000-volt line between Port Arthur transformer station and the Thunder Bay Paper Company was extended 1.6 miles to the Provincial Paper Company. The new line, which was built to supply a new steam load, is twin-pole construction and has 336,400 circular-mil a.c.s-r. conductors.

### NORTHERN ONTARIO PROPERTIES

#### 132,000-Volt Lines

Between Iroquois Falls junction and Kirkland Lake transformer station, 57.30 miles, a wood-pole line was completed. In general, the design of this line is suspension-insulated, single-pole, wish-bone type and carries 3/0 a.c.s-r. for the northern 28.42 miles and 3/0 copper conductor for 28.14 miles of the southern half. Ground cable of  $\frac{1}{4}$ " galvanized-steel and a telephone circuit are included.

Between Kirkland Lake transformer station and Matachewan transformer station, 39.04 miles, a similar line was constructed, the conductors in this case being 2/0 copper cable.

At the Kirkland Lake end, the above two lines are brought in on six double-circuit, steel-towers, carrying 203,200 circular-mil a.c.s-r. conductors,

a distance of 0.74 of a mile. These lines were built to meet demands for power by mining companies in the district.

Between Hunta switching station and Smooth Rock transformer station, the double-circuit, steel-tower line, recently acquired by the Commission, was completed and placed in service by the erection of one double-circuit, steel-tower and two spans of 4/0 a.c.s-r. conductors and ground cable at the Smooth Rock end.

#### Other Lines

Between Matachewan transformer station and Matachewan Consolidated Gold Mines, 0.7 of a mile, a single-circuit, 26,400-volt, 2/0 copper conductor, wood-pole line was completed. A similar line, 0.16 of a mile, was built between Matachewan transformer station and the Young Davidson mill.

Between Kirkland Lake transformer station and Bidgood-Kirkland Gold Mine, five miles of 12,000-volt, single-circuit, No. 4 copper conductor, wood-pole line was constructed.

The 33,000-volt line between Island Falls generating station and Abitibi Canyon generating station, 29.82 miles long, which was used for construction purposes at the Canyon, was dismantled.

### TELEPHONE LINES—ALL SYSTEMS

Between Grenadier pond and Strachan avenue substation, in Toronto, 3.2 miles, a double-circuit, telephone line was relocated and restrung with new copper conductor on leased poles.

Between Allanburg and Dundas, Woodstock and London, London and St. Thomas, sections of telephone pole lines were rebuilt to provide joint use with rural power circuits. A section of the Guelph to Preston telephone line was re-routed in the vicinity of Hespeler.

Between Allanburg junction and DeCew Falls generating station, a distance of 4.75 miles, existing telephone lines and equipment were revised, and an additional copper circuit to improve interconnecting telephone facilities with the various Niagara system operating centres, was erected.

The telephone circuit between Ottawa transformer station and the Gatineau Power Company transformer station at Val Tetreau was relocated and rebuilt over a shorter route for a distance of 3.1 miles.

Additional telephone lines and equipment were installed at Ottawa, Cornwall and Howard Smith (steam) transformer stations in order to provide facilities for additional telephone circuits between these points.

To improve communication between Kingston and Ottawa, telephone line revisions were carried out between Smiths Falls and Ottawa, and additional equipment installed and line revisions made at Frontenac transformer station in Kingston.

In the Abitibi district connection was established with the Northern Ontario Power Company by construction of a single-circuit telephone line between Schumacher and Timmins, a distance of 2.5 miles.

Telephone equipment was installed at Hunta, Kirkland Lake and Matachewan.



## DISTRIBUTION LINES AND SYSTEMS

In Appendix III is shown in tabular form a summary of the work carried on during the year by the Distribution section of the Electrical Engineering department.

In addition to locating and supervising the construction of rural lines in the various rural power districts, the following special work was carried out.

### **Ground Terminals on Rural Lines, Insulator Ties, etc.**

The ground terminals on rural lines were improved in 165 rural power districts. In twenty-five districts, representing 1,265 ground terminals, no further improvement was required.

Specifications for the necessary improvement were issued in 83 of the remaining 140 rural power districts, in which there are approximately 18,000 ground terminals. In the above 165 rural power districts, more than 17,000 grounds now meet the requirements for standard resistance of 25 ohms or less. The periodic tests on the resistance of ground terminals at the four test stations, installed near Toronto in July 1932, were resumed during the Winter. These four test stations were installed in different classes of soil, namely sand, gravel, clay, and shale rock. At each of these stations, twelve different terminals were installed, including driven rods and pipe and buried strip or mesh. Certain of the terminals were treated with various salts.

Since the Winter was unusually severe and the early Summer was especially hot and dry, much valuable information was obtained regarding the effect of frost and of excessive drought on ground terminals.

The results, covering the complete test period from July, 1932, to May, 1934, on 114 test terminals have been tabulated and the information is now available and is expected to prove valuable in connection with grounding problems.

Extensive tests were made on various types of ties for insulators, some 500 ties in all being tried. As a result, the standards for tying conductors on rural lines have been revised to a more efficient basis. Tests were also made to ascertain the best method of dead-ending conductors.

Assistance was given the laboratory in determining the weatherproofness of various types of lightning arresters. While certain of the older types showed a weakness in this regard, similar to that experienced in the field, the tests indicated that newer developments have to a large extent overcome this defect.

A field test was also conducted on open type drop-out fuse switches on heavy currents. The data collected are of great value, both in the selection of suitable switches for rural line work and to the manufacturer.

The improvement in voltage in some of the districts where the source of supply was a considerable distance from the consumers, was continued by the installation of automatic booster transformers.

These boosters automatically maintain satisfactory voltage during periods of heavy load. The booster installation was found to be particularly effective in districts where there is a heavy summer resort load for part of the year.

### **Radio Interference and Flashover Tests, Highway Lighting, etc.**

Assistance was given to the Testing and Research laboratories in conducting tests to determine the voltage at which radio interference commences, and also the wet and dry flashover point of all types of insulators and fuse



cutouts used on rural lines. In all about 100 pieces of equipment were thus tested.

In response to an increasing interest in highway lighting, estimates have been prepared for the lighting of experimental sections of one of the main Provincial Highways.

A considerable amount of re-location of lines was made necessary by the activity of the Department of Highways in widening and straightening several roads throughout the Province.

A paper was prepared on "Insulator Ties" and read before the A.M.E.U. Convention at Ottawa. This paper was well received and requests for additional copies have been received from such distant points as South Africa, South America and Mexico.

### **DISTRIBUTION RURAL LINE CONSTRUCTION**

During the year ended October 31st, 1934, in addition to a large number of short line extensions to new consumers, the following work was carried on in rural power districts.

#### **NIAGARA SYSTEM**

**Amherstburg R.P.D.—N15D3**—During the year progress was made in changing the existing single-phase line on the River Front road south of Amherstburg to three-phase. The work was held up due to widening of the highway at this point. One section of the line is arranged for joint use with the Bell Telephone Company.

**Aylmer R.P.D.—N11D2**—Obsolete switches and arresters were replaced by new ones.

**Bothwell R.P.D.—N14D10**—Improvements were made on the line formerly known as the Glencoe-Dominion Petroleum Company's line but now included in the capital investment of this rural power district. The neutral was lowered and the pole phase wire mounted on a pole top pin to provide greater clearance of conductors and minimize interruptions by means of the triangular type of construction.

**Exeter R.P.D.—N4D6**—In order to provide better regulation, the No. 4 aluminum conductors on the rural feeder between Dashwood and Grand Bend were replaced with No. 2 copper conductors for a distance of 7.25 miles. At the same time changes were made in the pole line, new anchors were installed and conductors moved to provide better clearance. The work was completed June 10, 1934.

**Haldimand R.P.D.—N2D8**—Approximately nine miles of single-phase rural line was constructed to serve rural consumers in the vicinity of Nantichoke.

**Jordan R.P.D.—N44D2**—In order to improve voltage conditions, conductors were increased in size and 4,000/2,300-volt lines were installed to tie in the existing distribution system with the Louth distributing station.

**Markham R.P.D.—N3D1**—In order to provide better voltage conditions, an additional primary conductor was strung on existing poles for five miles from Ringwood to Musselmans lake, changing the single-phase grounded line to 4,000-volt three-phase ungrounded, and the secondary circuits in the summer resort area at Musselmans lake were increased.

The distribution system in the village of Unionville was re-built by erecting greatly increased secondary conductors, adding new transformers and

re-locating others to better advantage for changing load conditions. The street lighting control wire in the village was re-arranged to conform with standard construction.

**Preston R.P.D.—N6D1**—On eleven miles of rural line from Breslau to Doon, a large percentage of the poles were replaced or stubbed and old cross-arms and insulators renewed.

**Ridgetown R.P.D.—N14D2**—In order to eliminate constant interruptions due to old type transformer cutouts new open type cutouts were installed.

**St. Thomas R.P.D.—N11D1**—Obsolete switches and arresters were replaced by new equipment.

**Saltfleet R.P.D.—N17D1**—Extensive changes were made to allow for road widening on Barton Street. The distribution networks in the subdivisions of Goodwin Park, Rosedale, Poplar Park, Highway Gardens and Glovers Side Road were rebuilt using heavier conductors to provide more adequate service for increased loads.

**Scarboro R.P.D.—N3D2**—In order to improve service to the Kingston road summer resort section, the existing single-phase and two-phase rural lines in the Frenchman bay and Fairport beach areas were converted to three-phase lines by the addition of primary conductors totalling  $3\frac{1}{4}$  miles of line.

**Simcoe R.P.D.—N12D2**—To supply a 40-horsepower load at the Simcoe Wool Stock Company, a single-phase rural line feeding out of Simcoe distributing station was converted to three-phase with heavier conductors.

**Wallaceburg R.P.D.—N14D13**—More than 100 poles had to be re-located due to widening and straightening of the Blue Water highway on the St. Clair river road, north of Wallaceburg. In the districts of Brigden and Sarnia, similar improvements carried on by the Provincial Highways Department necessitated extensive changes in pole locations. Pole top pins were erected for the center phase to provide better clearance.

**Walsingham R.P.D.—N12D7**—During the year a 4,600-volt grounded line, ten miles in length was constructed to serve consumers in the Township of Houghton and South Walsingham. At the same time, the existing pole top pins were removed on two miles of single-phase line and crossarms were erected with heavier conductors. All the existing 2,300-volt transformers, arresters and cutouts west from Port Rowan were replaced by 4,600-volt equipment and a 37.5-kv-a. 4,600/2,300-volt, step-up transformer was erected on the rural line where it tapped off the Port Rowan feeder to step up the voltage of all lines feeding west from Port Rowan.

There were also some changes made in the existing rural line from St. Williams distributing station to Turkey Point. On the section from St. Williams to the junction of the Normandale tap, a distance of 5.5 miles two additional phase wires were erected and from the Normandale tap to Turkey Point, a distance of 0.75 of a mile, one additional phase wire was erected. This work was done to improve voltage conditions at Turkey Point and was completed June 28, 1934. Ten miles of new line was constructed in the district to serve new consumers.

**Welland R.P.D.—N1D5**—A considerable amount of re-building was carried on and the size of conductors increased in the vicinity of Port Robinson and Welland South.



**Woodbridge R.P.D.—N16D1**—The distribution system secondary circuits were completely rehabilitated in the village of Nobleton.

The rural three-phase line from Woodbridge to Maple was re-built for a distance of 8.5 miles by replacing the No. 6 copper primaries with No. 1/0 copper and by replacing the existing iron neutral with a No. 2 copper neutral.

The secondary system in the village of Maple was re-constructed using heavier conductors and additional transformers. Sectionalizing switches were also erected at the village limits.

**Woodstock R.P.D.—N10D2**—In order to supply a power load of 25 horsepower at Hickson, the existing single-phase 2,300-volt grounded line, 6.80 miles in length, between Woodstock and Hickson was converted into a three-phase 4,000-volt ungrounded line by the addition of another conductor. The line was put in service on June 7, 1934.

### GEORGIAN BAY SYSTEM

**Sparrow Lake R.P.D.—W1D1**—Extensions of existing rural lines were made to serve summer consumers located in the Sparrow lake summer resort area. Twenty-one sectionalizing switches were erected to replace obsolete switches or provide new means of sectionalizing various sections of the district.

**Wasaga Beach R.P.D.—S10D1**—The summer load at Wasaga Beach increased to such an extent that it was found necessary to replace the No. 6 copper conductors on eleven miles of three-phase, 8,000/4,600-volt line with No. 1/0 copper.

The new circuit from Stayner sub-station to Wasaga Beach was put in service June 11, 1934.

#### **Rural Cable Installations**

Several submarine cable extensions were made to various islands in the Muskoka lakes to provide service to summer homes as follows:

**Bala R.P.D.—GB13D1**—Five cables totalling 1.5 miles to the Mazangah group. Three cables totalling 0.66 of a mile to Hamills Point, Charity and Hope Islands.

**Beaumaris R.P.D.—M7D1**—Three cables totalling 0.75 of a mile to Keewaydin, Silverwoods and Ellsworth Islands. One cable 2,350 feet to Grand Island.

**Utterson R.P.D.—M8D1**—One cable 2,250 feet to Wigwassan Lodge.

These thirteen cable installations were all laid and put in service during the summer of 1934.

### EASTERN ONTARIO SYSTEM

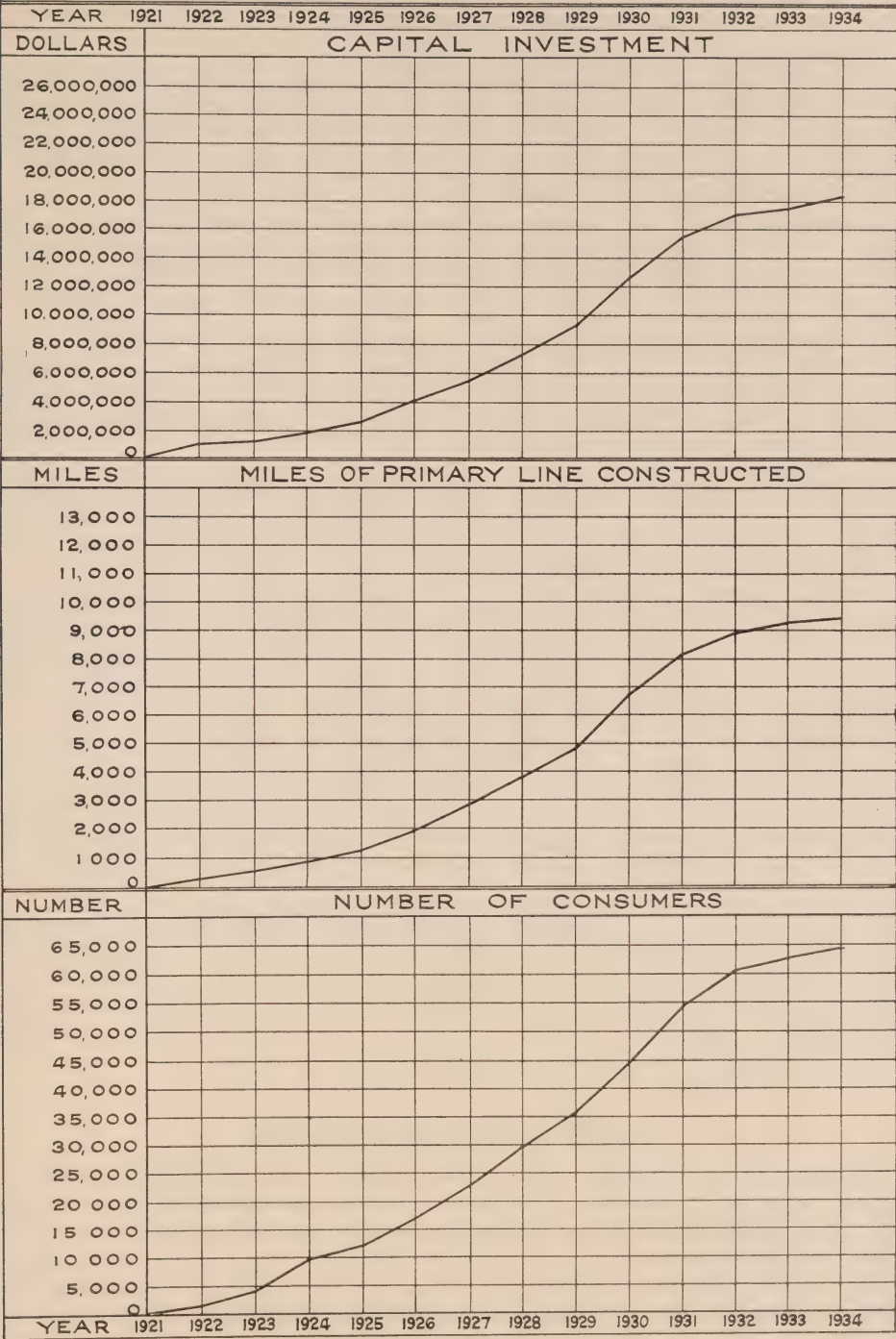
**Fenelon Falls R.P.D.—C30D1**—In order to supply power to the north shore of Sturgeon lake, opposite Thurstonia Park, a submarine cable 3,600 feet in length was laid across the lake. The cable is a single conductor, single-phase and operates at 6,900 volts to supply 3½ miles of rural line. It was put in service on July 13, 1934.

**Renfrew R.P.D.—QM16D1**—With the erection of the Renfrew-Cobden feeder line, it became possible to serve a large number of consumers by constructing 4.5 miles of rural line in the townships of Adamson and Bromley. It is expected that service will be given in the latter part of November, 1934.



RURAL POWER DISTRICTS

GROWTH IN CAPITAL INVESTMENT ~ MILES OF LINE ~ NUMBER OF CONSUMERS



## DISTRIBUTION FEEDER CONSTRUCTION

The following work was carried on in connection with distribution feeders:

### NIAGARA SYSTEM

**Baden D.S. to Phillipsburg—N635x6**—This circuit which forms a part of the Wellesley feeder was re-built where the poles needed replacing, and in order to improve voltage regulation in the village of Wellesley, larger conductors were strung between Baden distributing station and Phillipsburg. The work was completed December 22, 1933.

**Boyd Brick Co. Junction to Gypsum Co. Junction—N1360x61**—The capital invested in the feeder line between the Boyd Brick Company junction and the Gypsum Company junction covering 0.7 of a mile of line was transferred to feeder line capital. The transfer was made as of February 1, 1934.

**Dominion Petroleum Junction to Dominion Petroleum Co.—N1489x29**—The Dominion Petroleum Company having signed a rural power contract and become a rural consumer, it was necessary to transfer the capital invested in the three miles of three-phase 8,000-volt feeder line to rural capital. The transfer was made as of January 23, 1934.

**Gypsum Co. Junction to Campbellville—N1361x17**—The capital invested in the feeder line between the Gypsum Company junction and Campbellville covering 3.3 miles of line, was transferred to feeder line capital. The transfer was made as of February 1, 1934.

**Milton to Boyd Brick Company—N1308x60**—The capital invested in the feeder line between Milton and the Boyd Brick Company covering approximately 2.2 miles of line was transferred to feeder line capital. Crossarms and conductors on town poles in the town of Milton were purchased from the municipality. The transfer was made as of February 1, 1934.

**Ringwood D.S. to Stouffville—N395x21**—The town of Stouffville was formerly fed at 4,000 volts from the 26,400-volt sub-station at Mount Joy. When the 26,400-volt line was extended to Ringwood, capital investment representing 1.35 miles of lines was transferred from the Mount Joy-Stouffville feeder to the Ringwood-Stouffville feeder to cover the section of 4,000-volt line left in service. The transfer was made as of January 7, 1934.

**Waterloo D.S. to Bridgeport—N740x9**—The section of this feeder from Waterloo D.S. to Lexington, which was formerly a three-phase rural line, did not have conductors of sufficient capacity to carry the load and heavier conductors were erected between these two points. It was also necessary to change the dead-end connections, replace a number of crossarms and provide additional guying. The work was completed January 22, 1934.

### EASTERN ONTARIO SYSTEM

**Renfrew to Cobden—QM16x1631**—Work was commenced early in October on a feeder line from Renfrew to Cobden approximately twenty miles in length. This included fifteen miles of new three-phase line and five miles of existing single-phase to be changed to three-phase. The line will supply power at 6,600 volts to the municipality of Cobden. At the end of the fiscal year, all the holes had been dug and the poles erected, and a substantial amount of the wire strung.

## SECTION VII

### TESTING—RESEARCH—INSPECTION

The Testing and Inspection department has three main divisions: the Testing and Research laboratories, the Approvals laboratory and the Electrical Inspection branch. Each of these divisions performs duties of a special nature, but collectively they may be considered as being a service institution established for the benefit of the other departments of the Commission, the Hydro municipalities and their customers and, to some extent, for the benefit of power consumers in the province of Ontario as a whole.

The Testing and Research laboratories comprise the Electrical laboratory, Engineering Materials laboratory, Chemical laboratory, Illuminating laboratory and the Photographic and Blueprint branches. Their functions include testing, inspection and research in so far as these relate to the generation, transmission, distribution and consumption of electrical energy. The work of the Approvals laboratory embraces the testing and inspection of electrical equipment manufactured for use within the Province to assure the elimination of equipment hazardous to human life or to property. The Electrical Inspection division is responsible for the administration of the Commission's Rules and Regulations governing electrical installations. The duties of this section cover the inspection of wiring installations throughout the Province.

Reference was made in last year's report to the Research committee. This committee and its associated sub-committees has done valuable work during the year, and reference is made below to several of its accomplishments.

Statistics for the year are encouraging in that they show an increase over last year's operations of approximately 14 per cent in the volume of general testing.

### TESTING AND RESEARCH LABORATORIES

#### Statistical and Routine Work

A total of 46,747 tests of all classes was made by the Testing and Research laboratories during the year. Of this total, the Electrical laboratory made 14,673 tests, the Chemical laboratory 1,317, the Structural Materials laboratory 7,570, and the Photometric laboratory 23,187. The Blueprint branch completed 4,331 orders and made 48,252 prints having a total area of 136,560 square feet, and the Photographic branch completed 556 orders relating to routine work. The above statistics include tests to check the quality of materials such as



insulators, rubber gloves, transmission line hardware, paint, lamps, etc.; tests required for research and standardization projects; tests made at the request of Hydro municipalities; commercial tests, and calibrations on electrical measuring or recording devices.

### **Materials and Equipment Inspection Work**

The volume of inspection work was maintained at a somewhat higher level than last year owing principally to the construction of the Ottawa-Cornwall transmission line and the new Administration building.

#### **Transmission Line Materials**

For many years it has been the Commission's practice to purchase all materials under rigid specifications and to provide adequate inspection to assure compliance with these specifications. This involves the inspection of items such as insulators, clamps, pins, cross-arms, conductor materials, galvanized steel wire, bolts, splices and connections.

Detailed inspection is also made of steelwork for high-tension tower construction and for station structures. This work is done by an inspector resident at the point of fabrication, who is responsible for the material reaching the field without delay and in accordance with the plans and specifications. During the year, inspection was made of steelwork for the Ottawa-Cornwall transmission line and for station structures at Kirkland Lake and Smooth Rock.

#### **Equipment**

During the fiscal year, 32 power transformers and 495 distribution transformers of total capacity 160,150 kv-a, 17 circuit-breakers of total capacity 2,153,000 kv-a, and 22 disconnecting switches of total capacity 5,255,000 kv-a, were inspected and released for shipment. The staff also inspected equipment required in the construction and erection of five electric steam generators having a total capacity of 85,000 kw. and one welded steel heating boiler for the new Administration building.

Inspection has also been made of power-house equipment in connection with the Beauharnois contract. Included in this were one 46,625-kv-a generator, two 53,000-h.p. turbines, one motor generator exciter, and several transformers, breakers and switches. Extensive physical and metallurgical tests were made on specimens from the turbine and generator shafts, and special attention was directed to the welding of various parts of the equipment.

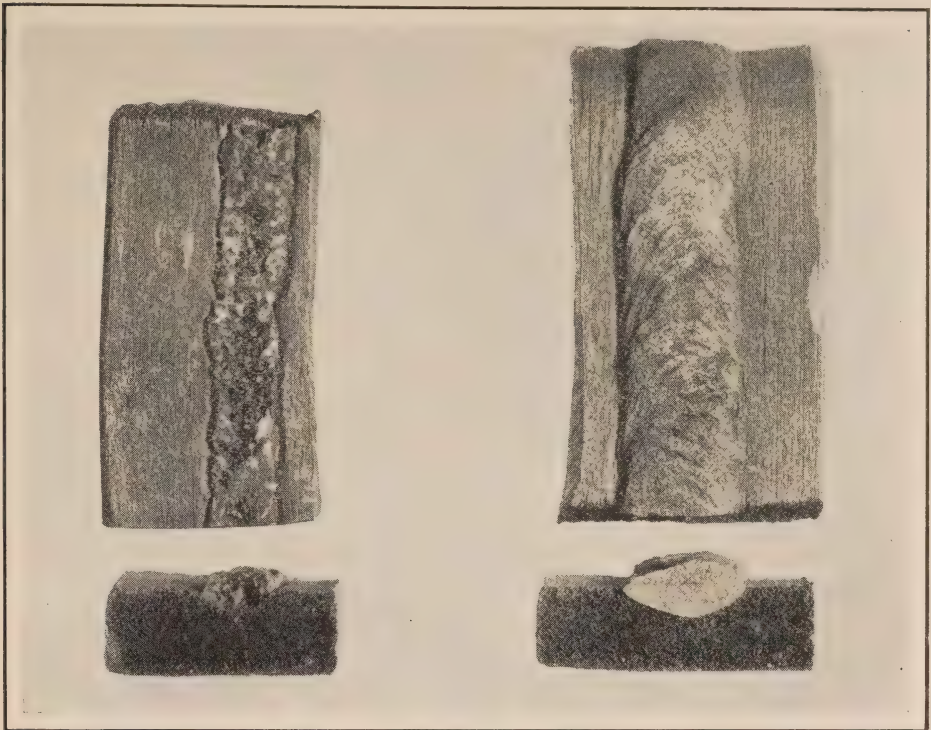
#### **Administration Building**

The structural and reinforcing steel required for the new Administration building was inspected during fabrication, and an inspector has been stationed at the site to check the workmanship and alignment during erection.

#### **Concrete**

Inspection of concrete for the Administration building is the major item under this heading. Inspectors have been stationed at the proportioning plant to check the quality of the mix and at the site to supervise the placing and curing operations.

Following the established practice of inspecting the Commission's existing concrete structures at least every three years, examinations were made of the



COMPARATIVE EFFECT OF CORROSION ON TWO TYPES OF WELD METAL

following: Brant and North Bay transformer stations, sections of the Queenston-Chippawa canal, the Eugenia Falls main dam and the developments at Bingham Chute, Elliott Chute, Hanna Chute, South Falls, Trethewey Falls, Wasdells Falls, Nipissing, Seymour, Bala and Auburn.

At the request of the Hamilton Hydro Commission, an inspection was made of disintegrated concrete street poles, and recommendations were made as to the advisability of repairing them.

## Research

### New Methods and Materials

The laboratories continue to investigate the merits of new materials and methods in order to assist the Commission's engineers in keeping fully informed of any new developments which might be helpful in the Commission's operations. Items of this nature investigated during the year include: special wire of British manufacture, devices for transmission line construction, linemen's safety belts, lamps for special service, a special cross-arm device for telephone lines, heat-resisting steels, reflex signals for vehicles, lighting units, metal spray coatings and hotplate units for domestic use.

### Investigation of Troubles

As in other years, the laboratories have been called upon to investigate troubles arising out of operation or to explain phenomena observed on our systems. Typical examples of these are:

Examination of an aluminum conductor removed from a railway crossing to determine to what extent corrosion had affected its strength. It was found that the strength was unimpaired and that scale rather than corrosion had caused the surface condition.

A metallurgical examination of a broken pump-shaft to determine the cause of failure. The examination revealed that the steel was not suitable for this type of service, and recommendations were made as to the grade of metal that should be used.

A bent axle was examined to determine if the manufacturer was at fault in supplying soft steel. The manufacturer was exonerated and cause of failure was discovered.

An examination to determine the cause of failure of an aluminum conductor from Harrow rural power district. The material was found to be of good quality, failure having resulted from the service conditions to which the conductor had been exposed.

Inspection of two tower members which had failed by vibration.

Inspection of cracks which had developed in the brake ring of a Queenston generator. A procedure for repairs was recommended.

### Investigations Leading to Improvements in Methods or Materials

Attention has been given to a large variety of problems during the year. Of these special mention may be made of the following:

The development of an inexpensive potential indicator designed for high-tension lines. This device has proved to be very reliable.

Improvements in electric water installations for domestic use. A fuse-link was developed to act as a high temperature safety trip in the heating circuit.

Short-circuit tests on high-voltage cutouts used on distribution circuits. Oscillograph records were taken of a large number of samples under various operating conditions.

Power factor measurements on bushings. A method was developed for measurement of the power factor of insulation at high voltage where the electrostatic capacity is not too high.

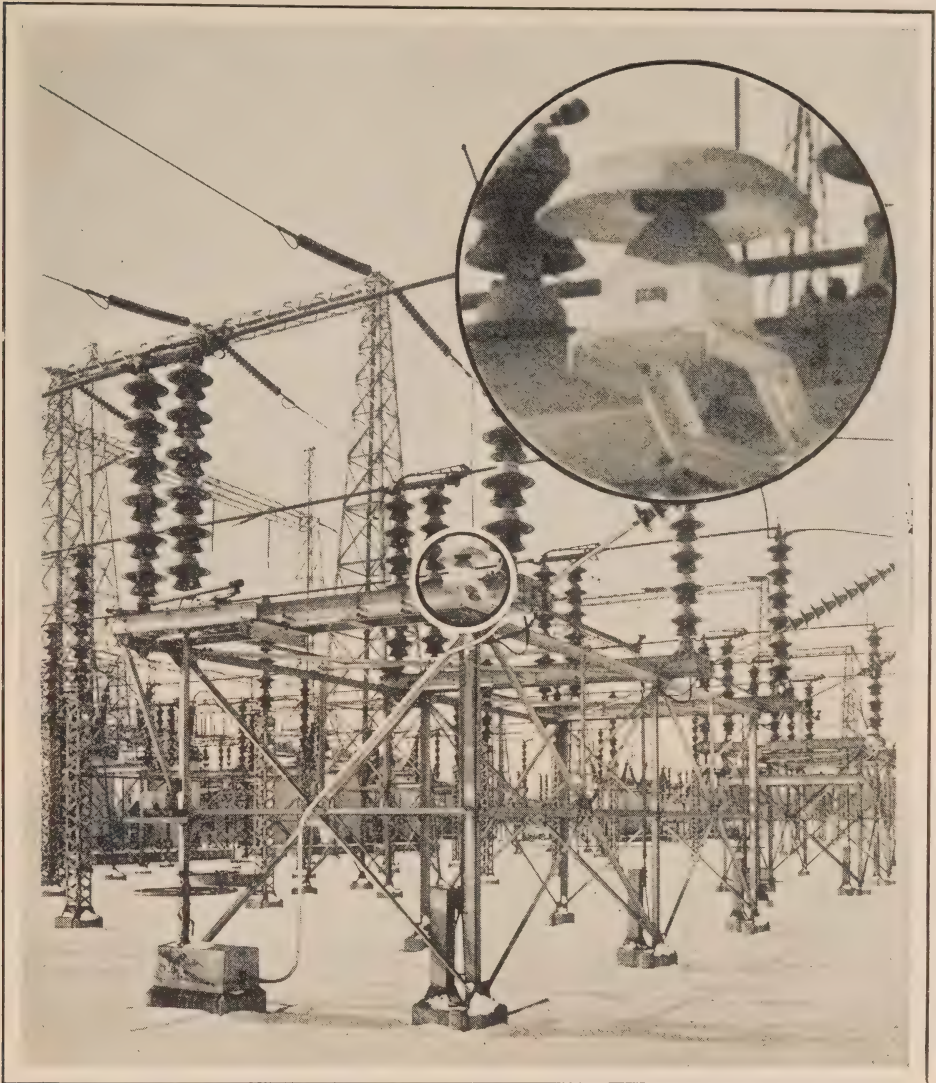
An investigation to determine the possibility of recharging lightning arrester cones. A suitable procedure was established.

Study of protective treatments for tower footings below the ground line. Twelve different treatments have been investigated.

Tests on various types of line ties. Four hundred tests were made using bare and weatherproof wire.

Tests on welded chain. Three types of chain were tested using electric butt welding and lap welding.





POTENTIAL INDICATOR FOR 220,000-VOLT CIRCUITS—ELECTRICAL LABORATORY  
Leaside Transformer Station

Vibration tests on dead-end clamps and connections. Sufficient work has not been done to obtain conclusive results.

An investigation to determine the effect of the hot bath process on the physical characteristics of weatherproof wire. Tests have been made on 259 samples with the intention of using the data in the preparation of specifications.

Comparative tests on different grades of asphalt roofing felts. Tests have been completed, and an analysis is being made of the data.



#### WOOD POLE STUDIES—CHEMICAL LABORATORY

LEFT—Jack Pine pole after 17 months' exposure. Decayed sapwood removed and brush coat of creosote applied.

RIGHT—Same pole after 5 years' exposure—no further decay in heart wood since creosoted

#### Treatment of Wood Poles

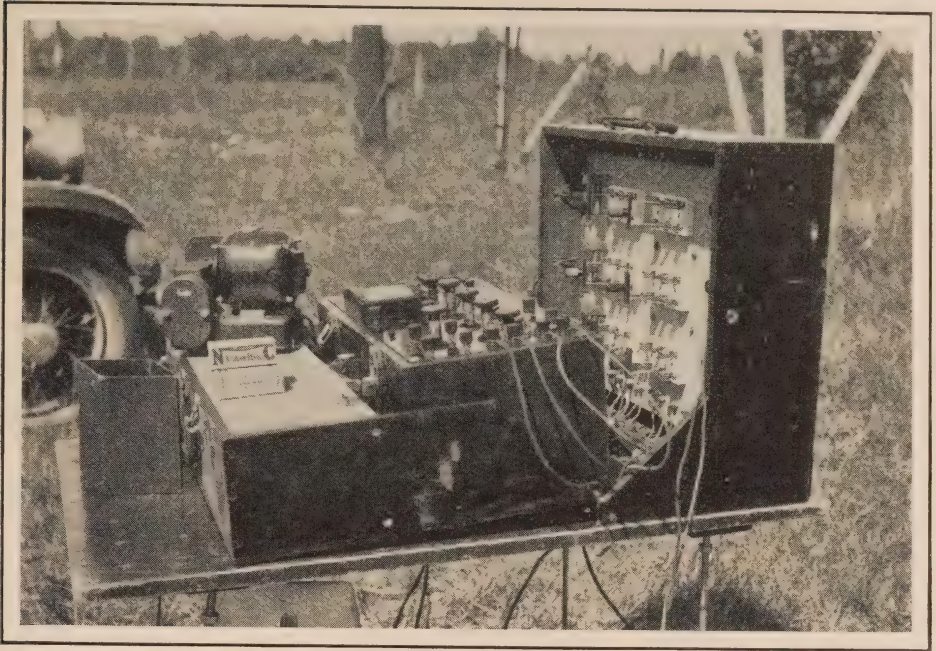
This project has been very active during the year. In collaboration with the Operating department, an inspection was made of several wood-pole lines, near North Bay. Particular attention was focussed on the study of insect destruction which has become a matter of much concern in that vicinity. The inspection yielded information which made possible the working out of a procedure for combating the destruction. In the North Bay district also, several groups of poles representing various preservative treatments were inspected and their condition recorded.

In the Niagara district, 300 poles were tested with an increment borer, records were made of centre rot found and the entire group was tagged. Inspection was also made of the poles in the test beds at Barrie and Leaside, as well as of those poles which were stubbed with galvanized steel shells last year. In addition, twenty soils were analysed to provide data for the study of soil classification and its relation to wood-pole decay.

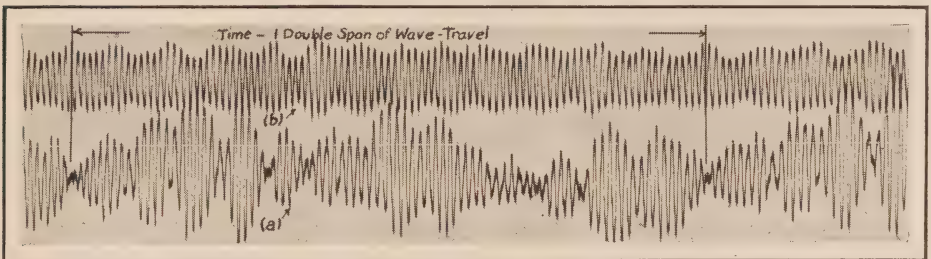
#### Paint

The value of the laboratories' paint research has been firmly established, and the annual saving to the Commission already effected has reached substantial proportions. Although this work has, to a large extent, become a routine matter, the Chemical laboratory is continually making tests on new products and methods of application. A complete series of tests was conducted to determine the wearing qualities of concrete floor paints, and studies were made of improved methods of painting wood.





EQUIPMENT FOR MEASURING TRANSMISSION LINE VIBRATIONS IN THE FIELD



CURVATURE RECORDS OF VIBRATIONS ON 795,000 CIR. MIL. CONDUCTOR

### Concrete

The following problems relating to concrete were studied during the year:

Thermal tests on concrete and concrete aggregates. This investigation, started just prior to the beginning of the year, was brought to a successful conclusion. Data were obtained as to the relative heat insulating values of various coverings for protecting concrete, the heat required for stockpiles during cold weather, the temperature of mixing water required to give a concrete mixture of specified temperature, the heat gradient of concrete in the forms and the degree of protection afforded by natural hydration of cement.



Proportioning tests on mixtures using crushed and screened rock as a substitute for natural sand. The proportioning and strength tests were completed but final analysis of the data has not been made.

An analysis of concrete compression tests and the probable uniformity to be expected in the field. The data previously assembled were re-studied and additional data were analysed.

Tests required for the new Administration building. The work included an investigation of the aggregate, proportioning tests for strength and workability, and tests to determine the best method of grouting column bases.

Proportioning tests for minor developments and repair jobs. Included in this were investigations for the development at Rat Rapids, repair work at Bingham Chute, Eugenia Dam, McVittie and Cameron Falls, station structures of Cornwall and Kirkland Lake, and the proposed dam at Cobden.

Studies on durability of concrete. For some years the Commission's laboratory studies have been closely co-ordinated with periodic observations as to the durability of various types of concrete structures in service. This is an essential procedure in correlating the theoretical and practical aspects of the problem. This year a survey was made of several structures which had previously been inspected in 1928. In all, nineteen structures were inspected and their condition recorded.

In February, the American Concrete Institute held its annual convention in Toronto. A member of the staff presided as chairman of the convention committee and two papers on "Winter Concreting" were prepared and presented by the Commission's technicians specializing in concrete construction problems.

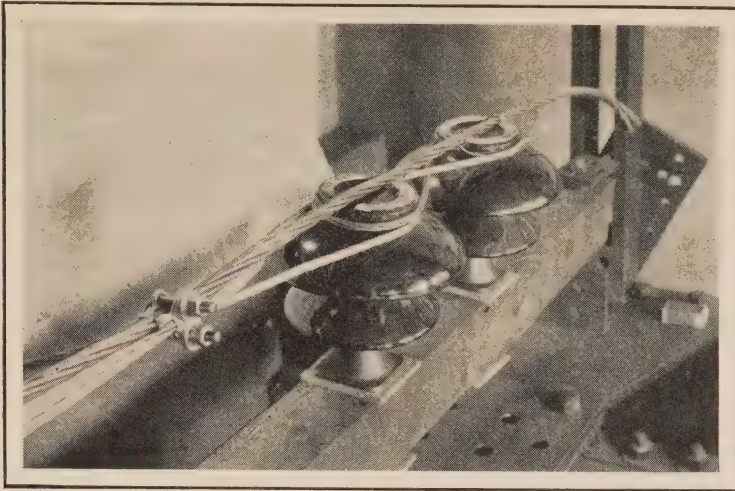
#### Vibration of Transmission Line Conductors

One of the most important research projects in recent years has been the investigation of remedial measures for preventing or reducing the destruction caused by transmission line vibrations. An entirely new method of attacking the problem, together with suitable instruments for measuring and recording vibrations, were developed by the staff and an extensive series of tests was conducted in the field. A wealth of practical data has been obtained, some details of which have been published in the American Institute of Electrical Engineers Journal of November, 1934.

Some work has also been done on endurance testing of clamps and connections using a mechanically sustained vibration on a laboratory test-span. Another study is in progress to determine the metallurgical characteristics of conductor materials in order to obtain data as to their endurance limits and the safe range of stress to which they may be subjected in service.

#### Radio Interference

This department co-operates with the Federal authorities in making tests towards mitigating interference of radio broadcasts by power line circuits. An extensive series of tests was conducted on line materials and devices to determine conditions under which radio interference might arise therefrom.



TEST TO DETERMINE THE STRENGTH OF INSULATOR PINS AND  
THE EFFECT OF YOKING THE INSULATORS  
Structural Materials Laboratory

### Communication

Assistance was provided towards the installation of radio communication equipment for the Rat Rapid development, and attention was given to various broadcast and carrier-wave installations at such times as special treatment was required.

### Test Methods

In the interests of economy, testing methods and equipment have been standardized as far as possible, but it is necessary that vigilance be exercised to ensure that results be valid. A survey is being made of the more recently developed methods used by manufacturers in so far as they relate to the duties of this department.

### Miscellaneous Research

Owing to the accumulation of experience on general engineering matters, members of the staff are frequently called in consultation on subjects pertaining to power generation and distribution. Typical subjects of this nature are the carrying capacity and stability of operation of networks and systems, and the protection of electrical apparatus from lightning or overload.

The problem of co-ordination of types of construction permissible where power and communication circuits must occupy adjacent locations has led to the formation of a Joint committee composed of communication engineers from various organizations. The laboratories are co-operating with this committee whose aim is to work out the most economical solution satisfactory to all parties concerned.

### Inventions

Several inventions submitted to the Commission were examined and reported upon.

## Miscellaneous

### New Equipment

Only a few items of new equipment were purchased during the year. These included a vibration generator, a three-ton hoist for adjusting tension of conductors in vibration tests, a micrometer microscope for measuring thickness of electrical insulation, equipment for moisture absorption tests on non-metallic tubing, an abrasion tester for conductor coverings, and a set of sieves for mechanical analysis of concrete aggregates.

Equipment was designed and constructed for testing the wearing qualities of paints intended for concrete floors, and the existing cord endurance tester was entirely rebuilt and fitted with a new gear-reducing unit.

### Purchase Specifications

During the year specifications were prepared in co-operation with the Research committee for gasoline, automobile lubricating oils and creosote.

Members of the staff co-operated with the city of Toronto By-law committee in the revision of the City Building Regulations, and with the Canadian Engineering Standards Association in connection with specifications for heavy steel shaft forgings.

### Lighting Service

The facilities of the laboratory are at all times available to assist municipalities and their customers in the solution of their lighting problems. During the year, twenty-seven reports were submitted in response to customers' requests for this type of service.

Extensive use has also been made of accumulated data on this subject to demonstrate the value of commercial display lighting, and to promote a wider use of power for this purpose. In this connection six lectures on lighting were delivered during the year to service clubs, merchants associations, chambers of commerce, and other organizations.

### Lamps

The testing and inspection of Hydro lamps was carried on as in previous years. This year, the volume of work was greater than has been recorded at any time since accurate statistics have been kept.

Lamps are used in a great variety of ways and under many conditions, and situations arise where the particular condition of each situation must be considered. During the year, assistance was given in nineteen such cases.

Gaseous conduction lamps have attracted much interest, particularly in regard to their use in highway lighting. A study was made of the outstanding features of these lamps, and a report was submitted for the information of the Engineering department.

The laboratory has continued to test headlamps and other automobile lighting equipment for the Department of Highways.



## APPROVALS LABORATORY

## Statistical

The following table contains a summary of the testing and inspection work of the Approvals laboratory for the past three years:

	1932 number	1933 number	1934 number
Applications for approval.....	660	743	742
Special approval tests, etc.....	178	237	267
Listing applications.....	52	67	54
Factory inspection reports.....	3,039	3,328	3,993
Labels sold (except wire, cord, conduit, etc.).....	696,100	621,723	1,057,378
Labels sold, conduit.....		446,000	705,000
Labels sold—Wire, cord, armoured cable, etc.....		334,000	438,000
Total number of labels sold.....	696,100	1,401,723	2,200,378

The following table gives the amount of wire, cable and conduit labelled during the past two years:

	1933 feet	1934 feet
Insulated wire..... (Incl. R.C. fixture wire and heat-resisting fixture wire)	63,600,000	74,125,000
Flexible cord.....	22,200,000	20,375,000
Heater cord.....	5,560,000	4,500,000
Armoured cable.....	7,420,000	9,150,000
Flexible steel conduit.....	120,000	150,000
Flexible non-metallic tubing.....	4,500,000	4,250,000
Non-metallic sheathed cable.....	6,300,000	7,250,000
Rigid steel conduit..... (Incl. nipples and elbows)	4,680,000	7,050,000

These figures indicate a substantial increase in production during 1934.

Applications for approval may be sub-divided as follows:

	1933 number	1934 number
Motor-driven appliances.....	222	194
Electrically-heated appliances.....	168	201
Wiring devices.....	125	96
Lighting devices.....	106	112
Industrial control and transformers.....	43	31
Miscellaneous.....	43	53
Wire and cable.....	19	17
Radio and sound appliances.....	17	38

### Specifications

#### Summary of Work

	1932-33 number	1933-34 number
Specifications in process by Canadian Engineering Standards Association, November 1.....	15	17
Specifications printed.....	5	7
Specifications advanced to final C.E.S.A. form.....	4	1
Specifications begun by laboratory staff.....	10	8
Meetings of C.E.S.A. Specification panel attended..	15	9
Average attendance of laboratory engineers.....	3.5	3
Other meetings relating to Approvals work.....	3	2

One engineer called upon electrical inspectors and manufacturers throughout Western Canada in relation to the new edition of the Canadian Electrical Code and to specifications mentioned above, in addition to general re-examination work. A special meeting of enclosed switch manufacturers and inspectors was held in Vancouver to discuss the third draft of the Enclosed Switch specification.

### Label Sales

Label service on electric fixtures was made effective at factories in Ontario and Quebec in January, 1934. In an effort to control the construction and installation of sub-standard coal-burning equipment, label service under the name "Coal Blower or Stoker" was devised and put into effect in factories and shops, where such equipment is assembled, in September. It is believed that such label service, requiring as it does more rigid specifications and inspection at the factory has done much to raise the standard of construction and to eliminate fire and accident hazard from two very important lines of domestic equipment.

It will be noted that there has been more than 50 per cent increase in the total number of labels sold. In the general group only four small items, motor starters, cabinets, enclosed branch circuit cutouts and branch circuit breakers do not show an increase. Fixtures, portable lamps, clocks and radio show the largest increases. Electrical materials for construction work such as conduit, wire and cable also have been much more in demand than in the preceding year.

### Miscellaneous

Short-circuit testing of fuses and small circuit breakers was extended during the year to include 250-volt cartridge fuses, the test equipment being moved to the Scott street substation of Toronto Hydro-Electric System.

Test equipment was devised and put into operation for the testing of small thermostats for electric heating pads. The whole routine for heating-pad tests was standardized and several manufacturers' products tested in accordance with H-E.P.C. Specification No. 33 (C.E.S.A. draft No. 15). Some definite

changes in this draft seem to be required as a result of these tests observed; but for the present year the specification as written is to be taken as laboratory requirements for approval. A machine for applying flexing tests to heating pads was constructed and arranged to be driven from the driving unit of the abrasion testing machine used for tests on braid of insulated wires.

Among the newer lines of appliances engaging the attention of manufacturers during the year, the following deserve notice: Hair-dressing appliances, air-conditioning equipment both of the evaporation and water-washing types, refrigerating and cooling equipment, beer pumps, battery-chargers for car owners, X-ray and medical equipment, radio test equipment, as well as many other new lines of heating appliances and motor-operated devices.

New types of rubber-jacketted heater cord have been developed for heavy duty pressing by flat irons. Asbestos-insulated nickel wire has become standard for the internal wiring of table-cooking appliances by some manufacturers. Improvements in the dielectric strength of appliances designed to be used in contact with patients, or the operators in hospitals have been made on the recommendation of the engineers of the laboratory and in some cases secondary insulation has also been provided. An improvement in the quality of heater cord has been effected. The laboratory suggested to the wire manufacturers that one of two types of cord be abandoned and that only the more durable type be produced. This suggestion was accepted.

These and many other changes in the general improvement of electrical equipment submitted to the Approvals laboratory may be noted and have been favourably commented upon by manufacturers and field inspectors.

A complete revision of the list of Approved Electrical Equipment in pamphlet form was issued in February and distributed to electrical inspection offices and others interested throughout the Dominion.

As an adjunct to this list, weekly publication was begun in April of a list of equipment on which laboratory work was now complete and final report issued, together with a list of applications for approval received. This list in mimeograph form has been circulated to the electrical inspectors of the Commission and those in other provinces in which effective sales control is being carried out.

The wire and cable manufacturers formed a technical committee for the purpose of discussing matters of laboratory procedure and specifications and other items of common interest. This committee has been of great value in effecting a saving of time in discussions on these matters, which previously were conducted with individual manufacturers.

The Approvals laboratory has continued its work of preparing specifications in co-operation with the Canadian Engineering Standards Association and the manufacturers—in this work it has found the Canadian Engineering Standards Association invaluable.

Some assistance was rendered to the research sub-committee on domestic services in the design of service entrance cable and of service equipments comprising a combination service switch, panelboard and switches for control of water heaters.



## ELECTRICAL INSPECTION DEPARTMENT

The Electrical Inspection department of the Hydro-Electric Power Commission has now been in operation for a period of nineteen years. It was formed, in the latter part of 1915, to supervise the carrying out of the Rules and Regulations governing electrical installations in all municipalities of the Province of Ontario. It functions for the Provincial Government under the direction of the Ontario Hydro-Electric Power Commission.

The Rules and Regulations were drawn up primarily because it was necessary to protect human life and also property from the hazards incidental to the wide and varied use of electrical energy in the Province. The original rules were known as the "Rules and Regulations of the Hydro-Electric Power Commission of Ontario."

Owing to the increasing intercourse between the several provinces of the Dominion, it was deemed advisable, in the interests of economy and efficiency, to formulate a code of regulations which would be acceptable to all. The preliminary work on these rules and regulations was started in 1920.

The new rules, known as the Canadian Electrical Code, Part I, are, generally, based on the "National Electrical Code" and the "National Electrical Safety Code", together with the "Rules and Regulations of the Hydro-Electric Power Commission of Ontario" and local regulations in force in the various parts of Canada.

It would be impossible, in the space available, to enumerate those members of the several committees responsible for the different sections of the "Code." It will suffice to say that these committees were composed of representatives from every field interested in the application and installation of electric wiring and equipment, such as public utilities commissions, architects, fire underwriters, manufacturers of electrical equipment, electrical contractors, electrical inspectors, electrical engineers, the Dominion and Provincial governments, etc., etc.

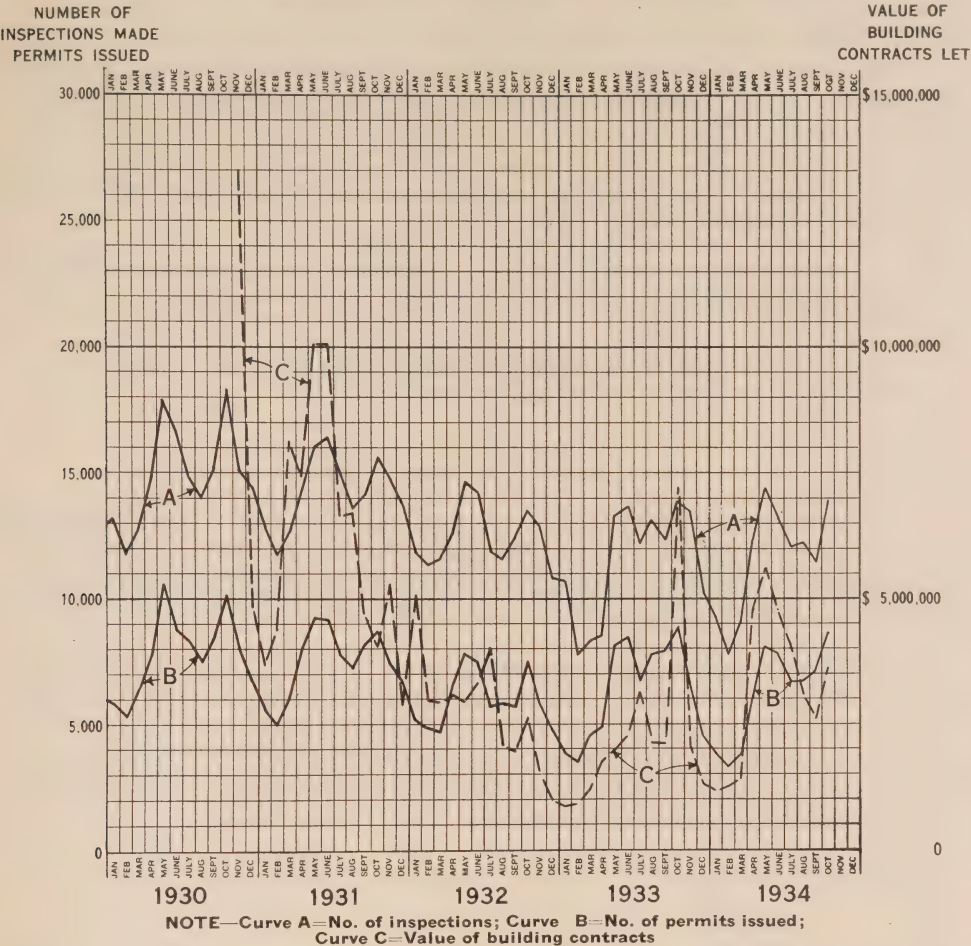
The Canadian Electrical Code, Part I, has been adopted by all provinces of the Dominion, thereby assuring an equal standard of electric wiring and equipment installation throughout Canada.

### Statistical

The following table contains figures relating to the operation of the department for the past three years:

	1932	1933	1934
No. of applications for inspection.....	76,171	75,054	73,224
No. of inspections made.....	153,895	137,760	139,720
Value of building contracts let.....	\$38,488,900	\$26,292,000	\$36,096,200

The accompanying graph shows the monthly trend in these figures for the past five years.



Fires Attributed to Electricity

A great number of fires are reported to the department each year, as having been caused by defective electric wiring or equipment. Upon investigation it is found, in the majority of instances, that any evidence which would afford proof of electrical origin, has been destroyed by the fire. Twenty-three fires were found to have been due to electrical defects as compared to thirty-one in 1933. The fires are classified, as to origin, below:

Origin	Number	Origin	Number
Armoured cable.....	8	Defective canopy switch.....	1
Flexible cord.....	5	Defective automatic control.....	1
Defective fixture joints.....	3	Gasoline vapour ignited in cleaning establishment, by arc from socket not approved for use in such locations.....	1
Short circuit in conduit.....	1	Gasoline vapour ignited inside of gasoline dispensing standard.....	1
Short circuit in meter trough.....	1		
Accidental ground.....	1		

It will be seen that 35 per cent of the fires attributed to electric wiring and equipment were caused by armoured cable and 22 per cent by flexible cord extensions.

### Electrocutions

Three persons were electrocuted this year, through contact with electrical equipment coming under the jurisdiction of this department, this number being a decrease of one from last year. The individual causes are cited below:

Man electrocuted through coming into contact with an ungrounded motor. Voltage of circuit, 550.

Man electrocuted while using a defective extension cord equipped with a brass socket. Voltage of circuit, 115.

Man electrocuted by grasping a bare conductor while standing on a steel drum. Voltage of circuit (to ground), 200.

### Ground Tests

In order to minimize life and fire hazards, the Rules and Regulations require all non-current-carrying metal parts of services to be grounded and in some instances, one of the service conductors. In the larger towns and cities, the municipal water piping system, which has a known low resistance, is used.

In isolated communities and in rural districts where a suitable water pipe ground is not available other means must be resorted to, such as driven ground rods, etc. On account of the great diversity in the resistances obtained from, mechanically similar, grounds of this type in different localities, it is necessary that each consumer's service ground resistance be known, previous to authorizing the supply authority to connect its lines to the consumers' service.

This year, 1,819 grounds were tested as compared to 2,222 in 1933.

### Infractions of Regulations

Twenty-four persons and companies were prosecuted for various infractions of the Provincial Rules and Regulations, such as working without permits or neglecting to remedy defects which constituted hazards to life and property.

### Re-Wiring

The routine work of re-inspecting the older and more obsolete type of installation has been carried out, as in previous years. In all, 2,616 installations were brought up to a reasonable standard of safety at an estimated cost of \$183,963.

### Coal Blowers

A large increase has been noted in the number of coal blowers and stokers installed, for domestic use, during the past two years. A great deal of work has devolved upon the department in checking these installations and in eliminating unapproved electrical equipment.



## SECTION VIII

## ELECTRIC RAILWAYS

GUELPH RADIAL RAILWAY

## Operation

There was no major commitment on capital account during the year. Way and structures, and equipment were well maintained.

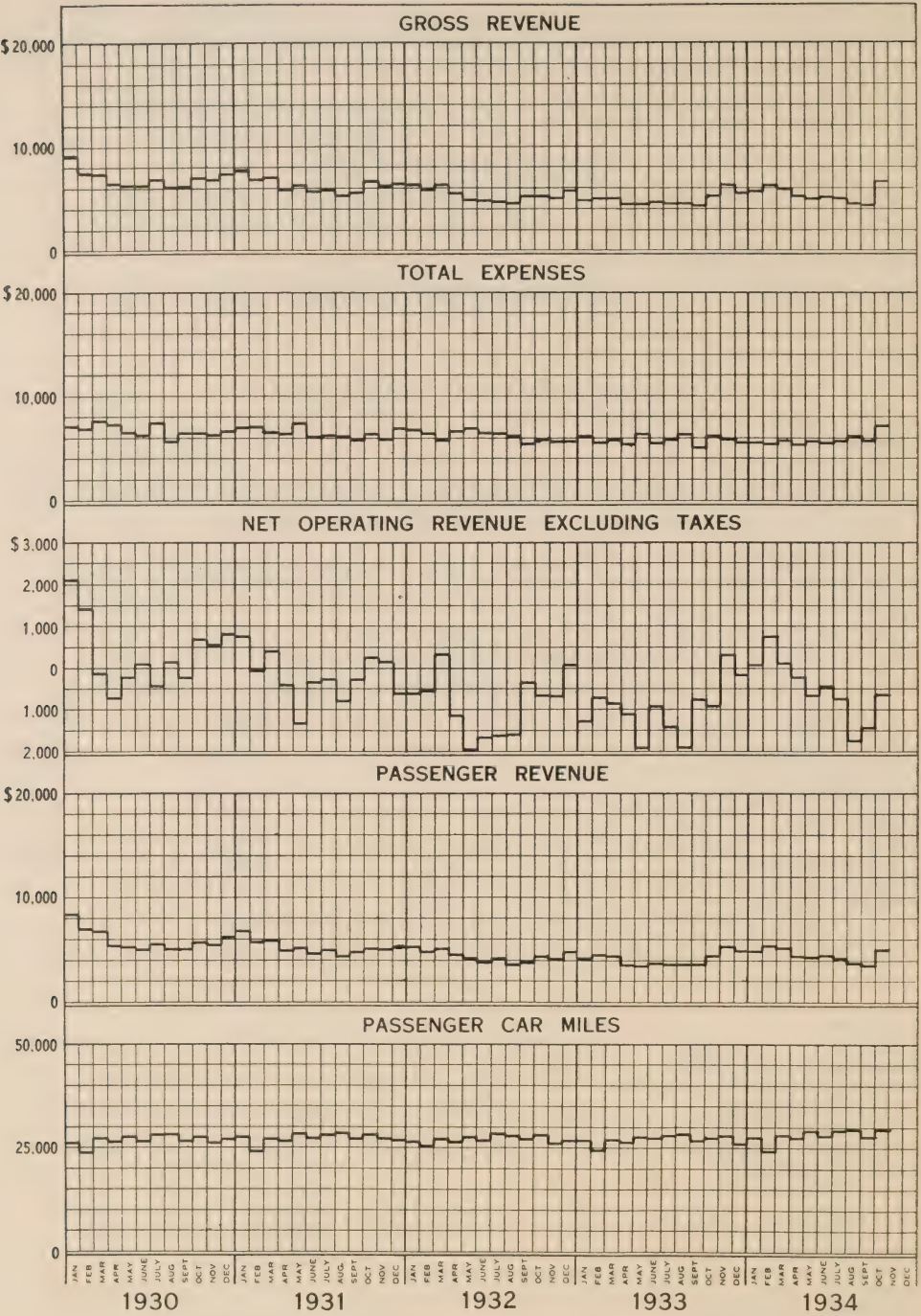
The results from operation are shown in the following tabulation and chart.

GUELPH RADIAL RAILWAY  
Comparative Operating Statistics

	1933	1934
Gross earnings.....	\$57,455	\$65,049
Operating expenses.....	69,806	69,147
Operating shortage.....	12,351	4,098
Interest and debenture payments.....	25,468	25,093
Sinking fund.....	3,159	3,159
Deficit.....	41,332	*32,607
Passenger earnings.....	47,921	55,215
Freight earnings.....	8,931	9,299
Route-miles:—		
Trolley.....	6.41	6.41
Bus.....	5.99	5.99
Total.....	12.40	12.40
Track-miles.....	9.06	9.06
Passenger cars operated.....	7	7
Passenger buses operated.....	4	4
Car-miles operated:—		
Passenger cars.....	221,185	225,466
Passenger buses.....	91,419	97,698
Freight locomotive.....	9,908	10,424
Car-hours operated:—		
Passenger cars.....	27,619	27,896
Buses.....	13,037	13,860
Freight locomotive.....	2,141	2,064
Passengers carried.....	1,066,285	1,196,377
Percentage of transfer passengers to revenue passengers.....	27.1%	27.15%
Accidents—total.....	17	25
Accidents—automobile.....	11	19
Accidents per 100,000 car-miles.....	5.1	7.5

\*Deficit includes \$11,700, on purchase account, of which \$8,731 is amortization and \$2,969 interest charges.

GUELPH RADIAL RAILWAY—OPERATING STATISTICS



## THE SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY COMPANY

### Operation

The management of the Sandwich, Windsor and Amherstburg Railway which has been under the supervision of the Hydro-Electric Power Commission since 1920, was transferred on September 22, 1934, to the Sandwich, Windsor and Amherstburg Railway Company, a local body created under the provision of *The Sandwich, Windsor and Amherstburg Railway Act, 1930*. The transfer relieved the Commission of all responsibilities in connection with the operation of the railway. The following report deals with the period November 1, 1933, to midnight, September 22, 1934.

The adjustment of the 1933 power bill was made too late to be included in the 1933 report and the amount of \$1,741 has been credited to 1934 operating expense. Similarly the 1934 adjustment has not been made at time of writing.

Conditions in the Border Cities have improved and are reflected in the increased earnings for the period operated. The accompanying chart indicates the record of the railway for the past five years.

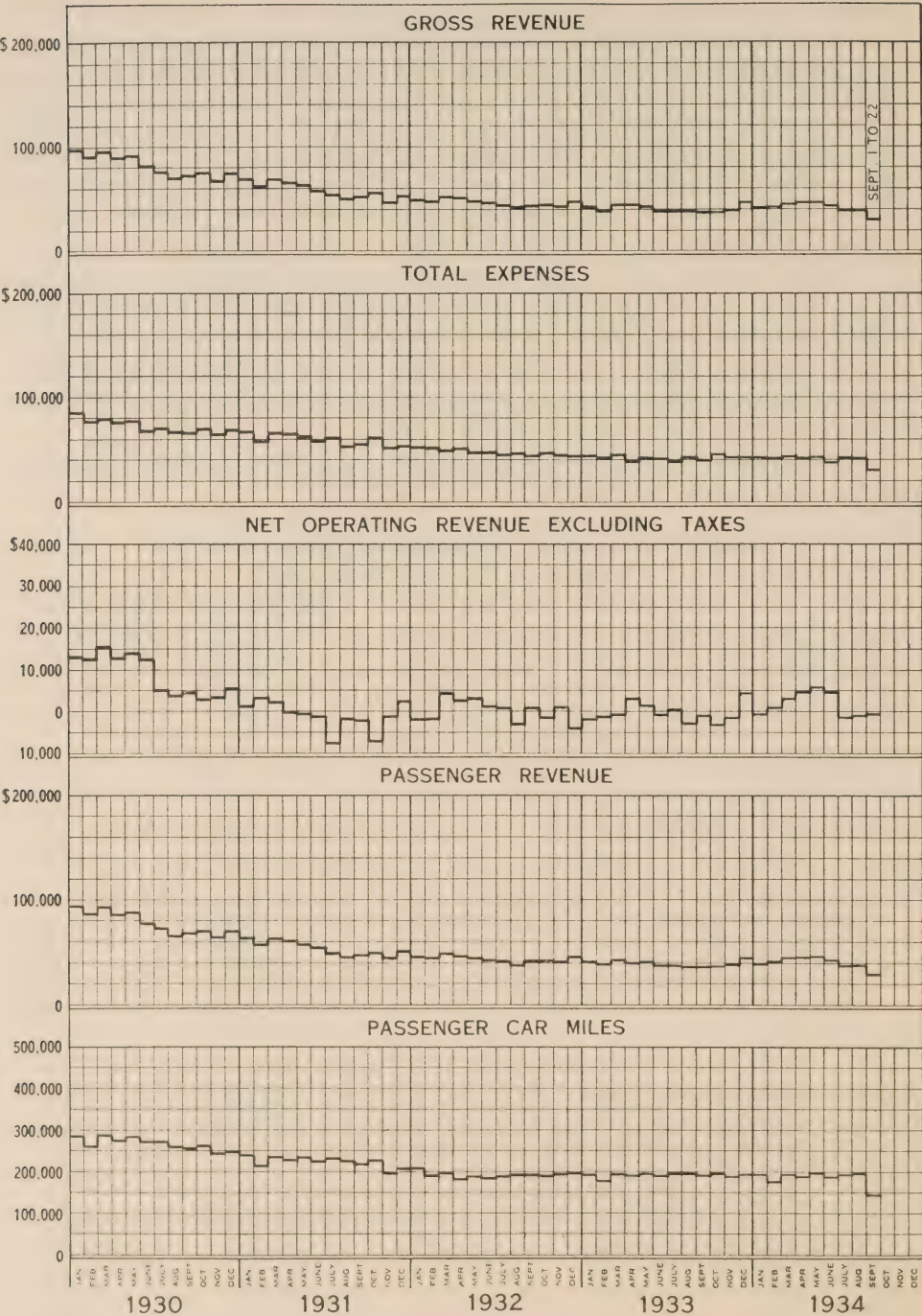
The following tabulation gives comparative operating statistics for the past two years.

### SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY Comparative Operating Statistics

	Fiscal year ended Oct. 31, 1933	Nov. 1, 1933 to Sept. 22, 1934
Gross earnings.....	\$492,795	\$457,136
Operating expenses.....	498,134	434,016
Operating surplus (shortage).....	(5,340)	23,119
Route-miles:—		
City lines.....	24.81	24.81
Amherstburg interurban.....	13.54	13.54
Tecumseh interurban.....	5.34	5.34
Total.....	43.69	43.69
Car miles operated:—		
Double-truck, 2-man cars.....	2,823	7,501
Interurban cars.....	438,297	380,853
Single-truck safety cars.....	569,528	471,359
Double-truck safety cars.....	1,311,334	1,207,814
Express cars.....	10,944	9,626
Service cars.....	12,268	10,473
Total.....	2,345,194	2,087,626
Passenger and freight car-hours.....	237,426	213,067
Passengers carried.....	8,576,698	8,086,437
Percentage of transfer passengers to revenue passengers.....	21.15%	21.19%
Passenger cars operated.....	58	57
Passengers carried per route-mile.....	196,308	171,800
Passengers carried per car-mile.....	3.7	3.9
Passengers carried per car-hour.....	36.4	38.2
Average mileage per car operated.....	40,031	36,272
Average passengers per car operated.....	147,874	141,867
Freight tonnage carried.....	1,616	871
Accidents, total.....	315	284
Accidents, automobile.....	214	195
Accidents, per 100,000 car miles.....	12.698	13.241



SANDWICH, WINDSOR AND AMHERSTBURG  
RAILWAY—OPERATING STATISTICS



## SECTION IX

### FINANCIAL STATEMENTS

Relating to  
Properties Operated by The Hydro-Electric Power Commission in the  
Niagara, Georgian Bay, Eastern Ontario and Thunder Bay Systems  
on Behalf of Municipalities,  
and to  
Northern Ontario Properties Operated by the Commission  
on Behalf of the Province

For a clear understanding of the financial statements relating to the operations of The Hydro-Electric Power Commission of Ontario, it is essential to take account of the somewhat unique character of certain features of the Commission's organization and financial structure.

The "Hydro" electrical undertaking of Ontario is an organization of a large number of partner municipalities co-ordinated into groups or systems for securing common action with respect to power supplies, through the medium of The Hydro-Electric Power Commission which under the Power Commission Act functions as their trustee. The undertaking as a whole, embracing all the operations from the provision of the power down to its final delivery to the ultimate consumer, involves two distinct phases of operations.

The FIRST phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by The Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems", and the financial statements relating to these collective activities of the municipalities are presented in this section of the Annual Report. Section IX also incorporates financial statements respecting the Northern Ontario properties operated by the Commission on behalf of the Province.

The SECOND phase of operations is the *retail* distribution of electrical energy to consumers within the limits of the areas served by the various municipal utilities and rural power districts. In the case of rural power districts, which usually embrace within their confines portions of more than one township, The Hydro-Electric Power Commission not only provides the power at wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the distribution of energy at retail to the consumers within the rural power districts.\* The financial statements relating to the rural power districts are also presented in this section of

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\*For further information respecting rural power districts consult latter portion of Section III in this Report.



the report. In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of The Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical data relating to such individual electrical utilities are presented in Section X of this report.

Having the foregoing distinctions respecting wholesale and retail electrical service in mind, the following brief notes will assist to an understanding of the economic structure and of the general plan of administration of the undertaking, and will make clearer the financial tables herein presented. The basic principle governing the financial operations of the undertaking is that electrical service be given by the Commission to the municipalities and by the municipalities to the ultimate consumers at cost.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. Each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use, together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The entire annual expenses—including appropriations for reserves—incurred by the Commission in the supply of power at wholesale are thus paid out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,\* when the Commission's books are closed and the actual cost payable by each municipality for power received has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such current expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for renewals, and for obsolescence and contingencies. The first-mentioned reserve is for the purpose of liquidating the capital liabilities; consequently as capital obligations are discharged the plant will progressively be freed from interest expense. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out; to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

The ultimate source of all revenue to meet costs—whether for the larger operations of The Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance

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\*The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities, however, ends on December 31, and the municipal accounts are made up to this date, and so recorded in Section X.



of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

The results obtained by the annual adjustments of the Commission's capital investment, operating expenses and fixed charges, as they affect individual municipalities are shown in the tables for the respective systems. For the purpose of financial statement, the various systems are treated as separate units and for each of them similar statements and details are presented. Many of the pages which follow, therefore, simply repeat for each system data similar to those which are presented for the first system dealt with in each division of the report, namely, the Niagara system. In order, therefore, to possess a ready grasp of all the figures presented in this and other similar reports of the Commission, all that is necessary is to have a true understanding of the financial procedure followed in connection with one system and with one municipal "Hydro" utility.

The accounts of The Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and the Public Utilities Act requires that they shall be audited by the auditors of the municipal corporation.

### Tabular Data

The first tabular statement given in Section IX is a general balance sheet exhibiting the assets and liabilities of the undertaking and relates to the properties constructed or otherwise acquired and being operated by the Commission as trustee.

The general balance sheet is followed by groups of statements relating in turn to each system of the Commission. These statements, for each system, are similar in character and include:—

**Operating Account** for the year, showing, for the system as a whole, the various items of operating expense and fixed charges entering into the cost of power as defined by the Power Commission Act, and the revenues collected by the Commission from the partner municipalities and other consumers.

**Cost of Power** statement, which shows the apportionment to each municipality or rural power district of the items of cost summarized in the Operating Account, as well as the apportionment of the capital expenditures listed in the balance sheet and the amount of power taken by each municipality. It should be appreciated that the cost of power given in this table is the wholesale cost,—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility or rural power district. In the case of rural power districts, the costs of power for the respective districts appear also in the "Rural Operating" statement, immediately following, as "Cost of power delivered"; in the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement "B" of Section X as "Power purchased".\*

**Rural Operating** statement, which shows for each rural power district the various items of cost, and the revenues received, in connection with the distribution of electrical energy to consumers.

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\*Consult footnote on previous page.

**Credit or Charge** statement, which shows the adjustments made in order to bring the amounts paid by each municipal electric utility to the actual cost of service to that municipality. These credits and charges are taken up and given effect to in the municipal accounts of "Hydro" utilities before the operating records of each year are closed.

**Reserve for Renewals**, which shows the provisions made for, the expenditures from, and the balances to the credit of, this fund.

**Reserve for Obsolescence and Contingencies**, which gives similar information with respect to this reserve.

**Sinking Fund** statement, which gives the accumulated total of the amounts paid by each municipality and rural power district as part of the cost of power together with its proportionate share of other sinking funds.

**Sinking Fund Reserve**, which summarizes the provisions made with respect to this fund.

All municipal "Hydro" utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserve to protect generating, transforming, and transmission systems, the municipalities are taking similar action with respect to their local "Hydro" utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts", relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

To illustrate further the foregoing explanatory comments, there is presented herewith a typical operating statement of an Ontario municipal electrical utility, covering its financial operations, both as a partner in a system of The Hydro-Electric Power Commission, and as administrator of its own local distribution system.

BARRIE "HYDRO" UTILITY

A Typical Operating Statement for the year 1934

REVENUE	
Collected from Barrie "Hydro" customers for year.....	\$107,117.62
EXPENSES	
<i>A.—Incurred by the Hydro-Electric Power Commission on behalf of the municipality of Barrie in connection with the supplying of its electrical energy. These data show—as determined by annual adjustment—what it costs the Commission to supply the municipality with its wholesale power. See "Cost of Power" statement, page 208, for the Town of Barrie as follows:</i>	
Cost (proportionate share) of power purchased for Georgian Bay system from Niagara system.....	\$4,047.11
Cost (proportionate share) of operation and maintenance expense of Georgian Bay system generating plants, transformer stations and transmission lines together with administrative expense ....	26,403.93

Interest, including exchange, on Barrie's proportionate share of capital investment in generating plants, transformer stations and transmission lines.....	25,213.65
Renewals reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines.....	6,520.27
Obsolescence and contingencies reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines.....	2,102.82
Sinking Fund (proportionate share) provided for repayment of investment in generating plants, transformer stations and transmission lines.....	5,866.83
Cost in excess of revenue from power sold to private companies* (proportionate share).....	855.92
	<u>\$71,010.53</u>

*B.—Incurred by the municipality of Barrie through its utility commission in connection with the sale of electrical energy to consumers. Consult the section dealing with the Municipal Accounts:*

Operation, maintenance and administrative expenses....	\$12,907.00
Interest on debenture debt, etc.....	2,574.43
Sinking fund and principal payments on debentures.....	2,818.99
Depreciation and other reserves.....	7,335.00
	<u>\$25,635.42</u>

#### TOTAL EXPENSES

Charged against revenue from customers of the Barrie system.. \$96,645.95

NET SURPLUS FOR THE YEAR.....\$ 10,471.67

The municipality of Barrie was connected to the Georgian Bay system in April, 1913. With the close of the twenty-first year of operation, this utility's total assets are \$398,202.57, liabilities \$42,792.85, and reserves and surplus, \$355,409.72, as shown in the municipalities' balance sheets, in Section X, Statement "A".

By reference to this municipality's balance sheet, it will be noted that the Barrie "Hydro" utility has created a sinking fund equity amounting to \$82,793.94 in the Hydro-Electric Power Commission system.

By reference to Statement "D" in Section X of this report it will be seen that under the low rate schedules prevailing throughout the Province, the rates in force in Barrie have resulted in *average costs*† to the various classes of service as follows: Domestic service (with an average monthly consumption per consumer of 117 kilowatt-hours) 1.9 cents per kilowatt-hour; commercial light service 2.1 cents per kilowatt-hour. The actual *rates in force* are presented in Statement "E" and particulars of street lighting service are given in Statement "C".

\*This represents the difference between the revenue received from private companies and other power customers operating under flat-rate contracts, and the result obtained by "costing" these loads on the same basis as that used in determining "costs" in respect of municipal contracts, including sinking fund and other reserves.

†If proper differentiation be made by those undertaking research, between the very different entities of rates on the one hand and the derived quantities of average costs or revenues on the other, a great deal of confusion and misrepresentation will be avoided. Consult introduction to Statement "D" of Section X.



## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER UNDER

## ASSETS

## Niagara System:

## Generating Plants:

Queenston-Chippawa development.....	\$76,879,215.68
Ontario Power development, including water rights....	22,032,921.20
Toronto Power development, including water rights....	11,522,014.50
Chats Falls power development.....	6,197,129.25
DeCew power development and steam plant, including water rights.....	11,824,824.64

## Transmission Lines:

Right-of-way.....	8,450,953.70
Steel-tower and wood-pole lines.....	25,975,739.58
Transformer Stations.....	35,328,791.97
	<hr/>
	\$198,211,590.52

## Distribution Lines:

Rural power districts.....	\$6,637,824.14
Rural lines.....	20,057.52
Local distribution systems.....	426,313.77
	<hr/>
	7,084,195.43
	<hr/>
	\$205,295,785.95

## Share capital of Hamilton Street Railway Company carried at a value of.....

\$3,000,000.00

## Cash advances to Hamilton Street Railway Company to cover capital expenditures and for working capital..

257,306.71

3,257,306.71

## Radial Railways in vicinity of Hamilton in process of liquidation—balance expected to be recovered.....

88,364.98

## Balances owing under agreements covering sales of certain properties, plants and equipment:

By City of Hamilton.....	\$1,687,500.00
By City of Brantford.....	\$116,000.00
Accrued interest thereon.....	5,800.00
	<hr/>
	121,800.00
By Canada Coach Lines, Limited.....	525,000.00
	<hr/>
	\$2,334,300.00
Shares (1,000) of First Preferred stock of Canada Coach Lines, Limited—at par— .....	100,000.00
	<hr/>
	2,434,300.00

## Thunder Bay System:

Nipigon generating plants.....	\$15,692,141.67
Transmission lines.....	1,917,425.17
Transformer stations.....	1,011,474.97
	<hr/>
	\$18,621,041.81

## Distribution lines:

Rural power districts.....	58,568.92
	<hr/>
	18,679,610.73
Carried forward.....	<hr/>
	\$229,755,368.37

## COMMISSION OF ONTARIO

and Liabilities, October 31, 1934

## TAKINGS

## LIABILITIES

To Province of Ontario:

Cash advances for Niagara and other systems.....	\$207,250,258.34	
Less: Repayment under provisions of Power Com- mission Act.....	19,421,015.06	
		\$187,829,243.28

Grant funds in the hands of the Commission to apply  
against rural power districts in course of construction  
or extension.....

\$33,729.78

Less: Grants (or balances thereof) payable by the  
Province to the Commission in respect of certain  
rural power districts completed or under construction.....

2,701.23

31,028.55

Amounts received from the Province for the purpose of  
making loans under provisions of the Rural Power  
District Loans Act.....

\$105,000.00

Note: Loans made to October 31, 1934, \$99,864.63.

Less: Principal instalments on such loans collected  
to September 30, 1934, and repaid to the Province.....

35,596.21

69,403.79

Interest on such loans collected in month of October,  
1934, and available to be paid over to the Province.....

237.15

69,640.94

Debentures issued by the Commission and guaran-  
teed by the Province of Ontario:

Four per cent debentures, due 1957, issued  
in purchase of Ontario Power Company  
of Niagara Falls.....\$8,000,000.00  
Interest accrued thereon.....80,000.00

\$8,080,000.00

Six per cent debentures, due 1941, issued  
for the purpose of retiring the 1921  
issue of the Ontario Power Company of  
Niagara Falls.....\$3,200,000.00  
Interest accrued thereon.....67,856.16

3,267,856.16

Six per cent debentures, due 1940, issued in  
purchase of the Toronto Power Com-  
pany, Limited.....\$413,200.00  
Interest accrued thereon.....10,330.00

423,530.00

Six per cent debentures, due 1940, issued in  
purchase of certain electrical power  
equipment of the Toronto and York  
Radial Railway.....\$205,800.00  
Interest accrued thereon.....5,145.00

210,945.00

Five per cent debentures, due 1939, issued  
for the purpose of retiring the 1924 issue  
of the Toronto Power Company Limited.. 4,000,000.00  
Interest accrued thereon.....75,000.00

4,075,000.00

Carried forward.....\$16,057,331.16 \$187,929,912.77

## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER UNDER

## ASSETS

Brought forward.....		\$229,755,368.37	
Georgian Bay System:			
Generating plants.....	\$3,768,540.81		
Transmission lines.....	2,585,120.36		
Transformer stations.....	1,156,066.78		
		\$7,509,727.95	
Distribution lines:			
Rural power districts.....	\$833,664.59		
Rural lines.....	2,807.43		
Local distribution systems.....	81,078.80		
		917,550.82	8,427,278.77
Eastern Ontario System:			
Generating plants, including water rights.....	\$10,142,418.06		
Surveys and engineering re power sites:			
On St. Lawrence river.....	\$734,873.31		
On Ottawa river.....	94,135.20		
		829,008.51	
Properties purchased for power sites.....	52,533.33		
Transmission lines.....	4,256,453.78		
Transformer stations.....	2,621,445.16		
Rural power districts.....	\$1,670,248.11		
Local distribution systems:			
Electric.....	109,789.99		
Gas.....	26,466.13		
Rural lines.....	90,699.12		
Pulp Mill.....	52,559.93		
		1,949,763.28	19,851,622.12
Northern Ontario Properties—comprising the Nipissing, Wahnapiatae, Abitibi-Sudbury, Patricia (Ear Falls), St. Josephs and Espanola Districts as follows:			
Nipissing District:			
Generating plant.....	\$1,101,715.33		
Transmission lines.....	173,186.88		
Transformer stations.....	16,457.86		
		\$1,291,360.07	
Rural power districts.....	\$22,751.21		
Local distribution systems.....	378,105.68		
		400,856.89	1,692,216.96
Wahnapiatae District:			
Properties, buildings, generating plants, equipment and water rights on Wanapitei river.....	\$2,506,976.10		
Transmission lines.....	139,015.15		
Transformer stations.....	45,437.06		
		\$2,691,428.31	
Local distribution systems.....	6,630.43		
			2,698,058.74
Abitibi-Sudbury District:			
Abitibi Canyon generating plant (uncompleted) and adjacent lines.....	\$16,922,249.48		
Transmission lines (other than those included in item above).....	2,698,768.15		
Transformer stations.....	501,852.42		
			20,122,870.05
Carried forward.....			\$282,547,415.01



## COMMISSION OF ONTARIO

and Liabilities, October 31, 1934

## TAKINGS—Continued

## LIABILITIES

Brought forward.....\$16,057,331.16 \$187,929,912.77

Debentures issued by the Commission and guaranteed by the  
Province of Ontario—Continued.

Four per cent debentures, due 1958, issued in purchase of distribution lines in Essex county.....	\$200,000.00	
Interest accrued thereon.....	3,333.34	
		203,333.34

Four per cent debentures, due 1958, issued in purchase of distribution lines in vicinity of Thorold.....	\$100,000.00	
Interest accrued thereon.....	1,666.67	
		101,666.67

Four and three-quarter per cent debentures, due 1970, issued in part purchase of undertakings and companies from Dominion Power and Transmission Company, Limited, as at January 1, 1930.....	\$13,000,000.00	
Interest accrued thereon .....	206,397.00	
		13,206,397.00

Five per cent debentures, due January 1st, 1935, issued in part purchase of under- takings and companies from Dominion Power and Transmission Company, Limited, as at January 1st, 1930.....	\$8,000,000.00	
Interest accrued thereon.....	133,698.00	
		8,133,698.00

Four and one-half per cent debentures, due 1938, issued to retire guaranteed debenture stock and other debentures.....	\$9,000,000.00	
Interest accrued thereon.....	100,972.60	
		\$9,100,972.60

Twenty-year redeemable debentures matur- ing in 1952 and bearing interest at the rates of 3½% in first five years, 4% in next five years, 5% in last ten years, issued in purchase of bonds of Ontario Power Service Corporation Limited, which bonds were in turn surrendered in the purchase of the properties and assets of that Company.....	\$17,626,950.00	
Interest accrued thereon.....	50,707.66	
		17,677,657.66
		64,481,056.43

Carried forward.....\$252,410,969.20

## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER UNDER

## ASSETS

Brought forward.....		\$282,547,415.01
Northern Ontario Properties— <i>Continued</i>		
Patricia District:		
Ear Falls generating plant.....		486,509.77
St. Joseph District:		
Generating plants.....	\$91,293.44	
Transmission lines.....	50,977.16	
		142,270.60
Espanola District:		
Transmission lines.....		20,000.00
Manitoulin Rural Power District:		
Transformer station.....	\$5,098.11	
Distribution lines.....	30,374.75	
		35,472.86
Bonnechere River Storage System:		
Round Lake dam.....		51,781.88
Service Buildings and Equipment:		
Service buildings and equipment, Toronto.....	\$510,177.00	
Terminal building, Hamilton.....	750,000.00	
Equipment of storehouse and garage, Hamilton.....	3,666.40	
Pole yard and equipment, Cobourg.....	21,629.08	
		1,285,472.48
Office Buildings:		
On University avenue, Toronto (including expenditures to date on new building).....	\$803,784.93	
On corner Elm street and Centre avenue, Toronto.....	160,821.95	
		964,606.88
Office Furniture and Equipment:		
At Toronto office.....	\$56,172.14	
At Electrical Inspection offices.....	4,279.35	
		60,451.49
Inventories:		
Construction and maintenance tools and equipment, including trucks and automobiles.....	\$752,629.04	
Construction material and sundry supplies.....	831,680.10	
Maintenance material and supplies.....	529,904.46	
Stationery and office supplies.....	25,169.38	
		2,139,382.98
Sinking Funds:		
Employed to make repayments to the Province of Ontario under the terms of the Power Commission Act.....	\$19,421,015.06	
Employed in retirement of bonds issued or assumed by the Commission and guaranteed by the Province of Ontario.....	8,792,501.20	
		\$28,213,516.26
Invested in securities of the Province of Ontario which stand:		
(a) Deposited with the Provincial Treasurer—par value, \$2,401,000.00.....	\$2,383,662.27	
(b) In the hands of the Commission—par value, \$200,000.00.....	229,956.25	
Interest accrued thereon.....	34,916.68	
		2,648,535.20
Carried forward.....		\$290,381,899.15

## COMMISSION OF ONTARIO

and Liabilities, October 31, 1934

## TAKINGS—Continued

	LIABILITIES	
Brought forward.....		\$252,410,969.20
Bonds assumed by the Commission and guaranteed by the Province of Ontario:		
First mortgage 5% gold bonds, due 1943, of the Ontario Power Company of Niagara Falls:		
Amount assumed at date of purchase of Company by Commission, August 1, 1917.....	\$9,834,000.00	
Less: Retired by the Commission.....	2,154,000.00	
	\$7,680,000.00	
Interest accrued thereon.....	95,736.98	\$7,775,736.98
First mortgage 5% gold bonds, due 1945, of the Ontario Transmission Company, Limited:		
Amount assumed at date of purchase of Company by Commission, August 1, 1917.....	\$1,772,000.00	
Less: Retired by the Commission.....	524,000.00	
	\$1,248,000.00	
Interest thereon payable November 1, 1934.....	31,200.00	1,279,200.00
Guaranteed 4½% debenture stock, due 1941, of the Toronto Power Company, Limited:		
Amount assumed at date of purchase of Company by Commission, December 1, 1920.....	\$13,558,917.81	
Less: Retired by the Commission.....	13,552,566.82	
	\$6,350.99	
Premium of 5% payable under terms of Trust Deed because of notice to retire before maturity.....	317.55	6,668.54
First mortgage 5% gold bonds, due 1933, of the Electrical Development Company of Ontario, Limited:		
Amount assumed at date of purchase of Company by the Commission, December 1, 1920.....	\$4,335,000.00	
Less: Retired by the Commission.....	4,334,500.00	
	500.00	9,062,105.52
Carried forward ...		\$261,473,074.72



## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER UNDER

## ASSETS

Brought forward.....\$290,381,899.15

## Insurance Funds:

(a) Invested in securities of the Dominion of Canada— par value \$800,000.00.....	\$800,000.00	
(b) Invested in securities of the Province of Ontario— par value, \$28,000.00.....	28,666.14	
(c) Invested in securities of The Temiskaming and Northern Ontario Railway—guaranteed by the Province of Ontario—par value, \$50,000.00.....	49,256.13	
Interest accrued thereon.....	1,118.35	
	<hr/>	
	\$879,040.62	
(d) On deposit with Workmen's Compensation Board.....	45,848.40	
	<hr/>	
		924,889.02

## Staff Pension Funds:

(a) Invested in securities of the Province of Ontario— par value, \$3,550,000.00.....	\$3,531,068.86	
(b) Invested in securities of the Dominion of Canada— par value, \$95,000.00.....	93,610.92	
(c) Invested in the securities of The Temiskaming and Northern Ontario Railway—guaranteed by the Pro- vince of Ontario—par value, \$75,000.00.....	73,884.20	
Interest accrued thereon.....	41,331.04	
	<hr/>	
		3,739,895.02

## Reserve Funds:

(a) Invested in securities of the Province of Ontario— par value, \$30,483,500.00.....	\$30,171,282.34	
(b) Invested in securities of the Dominion of Canada— par value, \$2,001,850.00.....	2,001,850.00	
(c) Invested in securities of the Canadian National Railways, guaranteed by the Dominion of Canada— par value, \$50,000.00.....	52,563.53	
(d) Invested in securities of the Commission, guaranteed by the Province of Ontario—par value, \$900,000.00	933,955.02	
(e) Invested in securities of The Temiskaming and Northern Ontario Railway, guaranteed by the Province of Ontario—par value, \$240,000.00.....	207,561.83	
(f) Invested in debentures of Ontario municipalities, which debentures were received from certain mun- icipalities upon the sale thereto of their local dis- tribution systems—par value, \$1,362,546.53.....	1,253,209.74	
Interest accrued thereon.....	425,972.50	
	<hr/>	
		35,046,394.96
Carried forward.....		\$330,093,078.15

## COMMISSION OF ONTARIO

and Liabilities, October 31, 1934

## TAKINGS—Continued

		LIABILITIES	
Brought forward.....			\$261,473,074.72
Other debentures assumed:			
In respect of purchase of original Muskoka power development:			
Amount assumed at date of purchase....	\$50,595.93		
Less: Retired by the Commission.....	36,980.63		
	<u>\$13,615.30</u>		
Interest accrued thereon.....	531.41		
		\$14,146.71	
In respect of purchase of sundry rural lines:			
Amount assumed at dates of purchase..	\$69,289.85		
Less: Retired by the Commission.....	41,022.42		
	<u>\$28,267.43</u>		
Interest accrued thereon.....	693.09		
		<u>28,960.52</u>	
			43,107.23
Outstanding share capital of:			
Electrical Development Company of Ontario, Limited.....	\$600.00		
Galetta Electric Power and Milling Company, Limited.....	580.00		
			<u>1,180.00</u>
Accounts payable.....	\$832,834.23		
Balance owing on purchase price of Espanola transmission line..	18,071.67		
Interest coupons due but not yet presented for payment.....	54,131.82		
			<u>905,037.72</u>
Insurance Department:			
Employees' outstanding claims and awards for accident compensation.....	\$882,712.87		
Surplus.....	59,551.08		
			<u>942,263.95</u>
Reserve for Staff Pensions.....			3,747,898.58
Carried forward.....			<u>\$267,112,562.20</u>

## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER UNDER

## ASSETS

Brought forward.....		\$330,093,078.15	
Other bonds and shares taken over with the plant assets of power companies acquired—carried at a value of.....	\$22,113.00		
Interest accrued thereon.....	332.51		
			22,445.51
Cash:			
In banks.....	\$1,025,709.83		
In banks to pay debenture stock and bonds overdue but not presented.....	7,168.54		
In banks to pay bond interest due November 1, 1934, and interest coupons overdue but not presented.....	85,331.82		
Sinking funds on deposit with trustees for bondholders....	828.97		
In hands of employees as advances on account of expenses.....	67,812.22		
			1,186,851.38
Accounts Receivable:			
Due by municipalities and sundry customers in respect of construction work, supply sales, etc.....	\$286,345.47		
Less: Reserve for disputed and doubtful accounts.....	22,363.60		
		\$263,981.87	
Due by Province of Ontario (various departments) in respect of construction work and other charges.....	157,803.02		
Due by municipalities and sundry customers in respect of power accounts.....	\$4,110,837.38		
Less: Reserve for disputed and doubtful accounts.....	736,953.73		
		3,373,883.65	
Balance (including interest) owing by Province of Ontario in respect of the operation of the Northern Ontario Properties to October 31, 1934.....	168,686.63		
Sinking fund and interest accounts owing in respect of rural lines.....	2,341.92		
			3,966,697.09
Balances due by Municipalities—following the annual adjustment—in respect of power supplied to them up to October 31, 1934, in addition to the amounts charged to them by monthly interim bills:			
Niagara system.....	\$315,720.23		
Thunder Bay system.....	85,231.66		
Georgian Bay system.....	75,203.73		
Eastern Ontario system.....	52,944.94		
Manitoulin rural power district.....	2,947.45		
			532,048.01
Carried forward.....		\$335,801,120.14	



## COMMISSION OF ONTARIO

and Liabilities, October 31, 1934

## TAKINGS—Continued

## LIABILITIES

Brought forward.....	\$267,112,562.20
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Balances due to Municipalities—following the annual adjustment—in respect of power supplied to them up to October 31, 1934, in reduction of the amounts charged to them by monthly interim bills:

Niagara system.....	\$856,342.95	
Thunder Bay system.....	188.41	
Georgian Bay system.....	123,540.10	
Eastern Ontario system.....	234,974.99	
Nipissing rural power districts.....	10,175.96	
		1,225,222.41

## Reserve for Sinking Fund:

Niagara system.....	\$27,539,414.02	
Niagara rural lines.....	11,627.32	
Thunder Bay system.....	1,251,553.24	
Georgian Bay system.....	1,062,474.58	
Georgian Bay rural lines.....	930.81	
Eastern Ontario system.....	1,281,767.77	
Nipissing rural power districts.....	935.15	
Manitoulin rural power district.....	670.39	
Bonnechere River storage system.....	5,417.39	
	\$31,154,790.67	
Service buildings and equipment.....	130,786.01	
Office buildings.....	169,721.12	
		31,455,297.80

## Reserve for Renewals:

Niagara system.....	20,967,278.30	
Niagara rural lines.....	4,112.31	
Thunder Bay system.....	1,542,219.32	
Georgian Bay system.....	1,592,832.03	
Georgian Bay rural lines.....	593.99	
Eastern Ontario system.....	3,490,857.20	
Northern Ontario properties.....	615,186.49	
Nipissing rural power districts.....	4,792.48	
Manitoulin rural power district.....	3,407.35	
	\$28,221,279.47	
Service buildings and equipment.....	328,185.88	
Office buildings.....	122,242.62	
		28,671,707.97
Carried forward.....		\$328,464,790.38

## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER UNDER

## ASSETS

Brought forward .....\$335,801,120.14

## Rural Loans:

Loans made to persons under provisions of the Rural Power District Loans Act in respect of purchases of, and installations of, electrical equipment.....	\$99,864.63	
Deduct: Instalments of principal received.....	36,270.27	
	\$63,594.36	
Interest instalments due.....	1,070.35	
Total amount receivable.....		64,664.71

## Work in progress:

Expenditures to date on purchase and installation and cost of equipment for water heaters installed in customers' premises..	\$481,542.10	
Water heater equipment in hands of Commission and on consignment with various municipalities.....	67,313.72	
Expenditures to date incidental to water heater campaign, including engineering, purchase and storage of equipment, administration, printing, advertising, etc...	96,436.39	
	\$645,292.21	
Less: Portions written off against revenue in the period of eighteen months to October 31, 1934.....	\$133,017.92	
Instalments received to October 31, 1934, on account of cost of booster heaters.....	5,760.68	
	138,778.60	
		506,513.61
Uncompleted and unallocated expenditures, also other deferred items chargeable in the periods subsequent to October 31, 1934, to:		
(a) Capital construction.....	\$5,167.25	
(b) Operating and maintenance expenses	52,707.66	
	57,874.91	
		564,388.52

Insurance unexpired ..... 43,334.24

## Discount and premium on Debentures issued by the Commission, less amounts written off:

Discount on debenture issue of \$3,200,000 maturing 1941	\$52,002.81	
Discount on debenture issue of \$4,000,000 maturing 1939	27,345.60	
	\$79,348.41	
Premium on debenture issue of \$9,000,000 maturing 1938	27,300.00	
		52,048.41

Total Power Undertakings .....\$336,525,556.02

## COMMISSION OF ONTARIO

and Liabilities, October 31, 1934

## TAKINGS—Continued

	LIABILITIES	
Brought forward.....		\$328,464,790.38
Reserves for Obsolescence and Contingencies:		
Niagara system.....	\$6,567,991.15	
Niagara rural lines.....	2,124.41	
Thunder Bay system.....	727,663.84	
Georgian Bay system.....	496,808.14	
Georgian Bay rural lines.....	259.32	
Eastern Ontario system.....	1,211,725.38	
Northern Ontario properties.....	253,422.39	
Nipissing rural power districts.....	1,790.77	
Manitoulin rural power district.....	1,117.89	
		9,262,903.29
Balance at credit of interest account.....		21,053.56

## Contingent Liabilities:

In respect of contracts amounting to \$1,122,542.56 entered into for power undertakings and office building in course of construction—but exclusive of substantial amounts of contractors' claims in respect of the Abitibi Canyon development and lines, the liability under which had not, at October 31, 1934, been determined.

Total Power Undertakings..... \$337,748,747.23



HYDRO-ELECTRIC POWER

Detailed Statement of Assets

RADIAL RAILWAY

ASSETS

Brought forward.....		\$336,525,556.02	
Guelph Radial Railway:			
Road and equipment.....	\$444,372.73		
Materials and supplies.....	6,099.65		
Reserve funds:			
(a) Invested in securities of the Province of Ontario—par value, \$25,000.00	\$22,571.96		
(b) Invested in securities of the Dom- inion of Canada—par value, \$25,000.00.....	24,801.17		
Interest accrued thereon.....	1,058.95		
		48,432.08	
Cash:			
In bank at Guelph.....	\$1,473.05		
In hands of employees as advances on account of expenses.....	900.00		
		2,373.05	
Accounts receivable, less reserve for doubtful accounts....	944.71		
Insurance and expenses prepaid.....	1,006.13		
Due by the City of Guelph:			
Operating deficit for the year ending October 31, 1934 —as per Operating Account.....	32,607.39		
		535,835.74	
Carried forward.....		\$337,061,391.76	

## COMMISSION OF ONTARIO

and Liabilities, October 31, 1934

## UNDERTAKINGS

## LIABILITIES

Brought forward.....\$337,748,747.23

In respect of the Guelph Radial Railway:

City of Guelph—purchase price of the Railway payable thereto, in half-yearly instalments according to purchase agreement.....	\$150,000.00	
Less: Twenty-seven instalments thereon.....	90,586.70	
		\$59,413.30

Debentures issued by the Commission and guaranteed by the Province:

Five per cent debentures due 1970, issued to retire \$300,000.00 of debentures which matured in 1931 and which had been issued for the purpose of making extensions and betterments to the railway.....	\$300,000.00	
Interest accrued thereon.....	7,500.00	
		307,500.00

Instalments of principal and interest payable to the City of Guelph, May 1, and November 1, 1934, under the terms of the purchase agreement.....	11,700.00
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Accounts payable and accrued charges.....	\$196.59	
Provision for unredeemed tickets.....	1,300.00	
		1,496.59
Premium on sale of debentures—less portion written off....		21,003.64
Reserve—created by payment of instalments on the purchase price out of the revenue of the road and assessments against the City of Guelph.....	90,586.70	
Reserve for sinking fund.....	11,637.86	
Reserve for renewal of road and equipment.....	32,497.65	
		535,835.74

In respect of the Sandwich, Windsor and Amherstburg Railway:

The Commission having—on the advice of its Solicitors—decided that the bonds of \$5,816,205, issued by it between 1920 and 1926 (and guaranteed by the Province of Ontario), under the provisions of the Hydro-Electric Railway Act, in purchase of the Sandwich, Windsor and Amherstburg Railway and to make extensions and betterments thereto, ceased to be a liability of the Commission upon the passing of the Sandwich, Windsor and Amherstburg Railway Act in 1930 and upon the transfer of the Railway to the Sandwich, Windsor and Amherstburg Railway Company in 1931, such bonds have not been extended as a liability in this Balance Sheet.

Carried forward.....\$338,284,582.97

## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## RADIAL RAILWAY

## ASSETS

Brought forward .....		\$337,061,391.76	
Toronto and York Radial Railway:			
City of Toronto debentures held as collateral security for the repayment of the Hydro Radial debentures issued in purchase of the Toronto and York Radial Railway—as per agreement covering the transfer (in January, 1927) of the railway to the City of Toronto.....	\$2,375,000.00		
City of Toronto—interest accrued on \$2,375,000.00 debentures issued by the Commission in purchase of the Toronto and York Radial Railway.....	59,375.00		2,434,375.00
Port Credit to St. Catharines Radial Railway:			
Purchase of right-of-way and carrying charges (taxes, less rental revenue) down to October 31, 1934.....	\$73,604.22		
Construction materials purchased, less amount realized on sale thereof.....	117,510.09		
Surveying, engineering, administrative expenses and interest.....	429,582.54		620,696.85
Toronto to Port Credit Radial Railway:			
Purchase of right-of-way and carrying charges (taxes, less rental revenue) down to October 31, 1934—less amounts realized on properties sold.....	\$498,409.58		
Surveying, engineering, administrative expenses and interest.....	604,084.78		1,102,494.36
TOTAL.....			<u>\$341,218,957.97</u>



## COMMISSION OF ONTARIO

and Liabilities, October 31, 1934

## UNDERTAKINGS—Continued.

	LIABILITIES	
Brought forward .....		\$338,284,582.97
In respect of Toronto and York Radial Railway:		
Debentures issued by the Commission and guaranteed by the Province of Ontario:		
Six per cent debentures, due 1940, issued in pur- chase of the Metropolitan, Scarboro and Mimico Radial Railway divisions .....	\$2,375,000.00	
Interest accrued thereon.....	59,375.00	2,434,375.00
In respect of the Port Credit to St. Catharines Radial Railway:		
Bank of Montreal—advances.....		500,000.00
(Secured by hypothecation of \$1,200,000. Hydro Radial debentures, being part of an issue of \$11,360,363 guaranteed by the Province of Ontario.)		
TOTAL.....		<u>\$341,218,957.97</u>

## NIAGARA

## Operating Account for the

COSTS OF OPERATION AS PROVIDED UNDER THE TERMS OF THE  
POWER COMMISSION ACT

Power purchased.....		\$6,872,793.14
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of this system:		
Generation and transmission equipment.....	\$4,292,313.92	
Rural power districts.....	529,535.07	
		4,821,848.99
Interest (including exchange thereon) on capital investment in:		
Generation and transmission equipment.....	\$9,836,248.24	
Rural power districts.....	301,774.53	
		10,138,022.77
Provision for renewals of:		
Generation and transmission equipment.....	\$1,368,136.58	
Rural power districts.....	259,028.24	
		1,627,164.82
Provision for obsolescence and contingencies in respect of:		
Rural power districts.....	\$ 129,514.12	
		129,514.12
Provision for sinking funds for repayment of the cash advances by the Province of Ontario to the Commission and for the retirement of the bonds issued by and assumed by the Commission:		
By charges included in the cost of power delivered to munici- palities and rural power districts.....	\$1,454,491.20	
By charges against contracts with private companies which purchased power and local distribution systems.....	463,860.08	
By charges included in the cost of distribution of power within rural power districts.....	68,856.46	
		1,987,207.74
Total costs of operation.....		\$25,576,551.58
Deduct:		
Cost to the Commission (including provisions for sinking fund \$463,860.08 and renewals \$305,620.76) of power delivered to private companies and customers under flat rate contracts, in excess of the revenue received from them—which excess has been charged against the contingency reserve of the system.....	\$1,348,697.11	
Amount appropriated from the contingency reserve of the system and applied proportionately to each munici- pality in reduction of the costs of operation.....	1,521,131.25	
		2,869,828.36
		<u>\$22,706,723.22</u>

## SYSTEM

Year Ending October 31, 1934

## REVENUE FOR PERIOD

Amounts received from (or billed against) each municipality by the Commission.....	\$15,742,616.49	
Power sold to private companies and customers, also miscellaneous revenue.....	4,644,928.05	
Amounts received from (or billed against) customers in rural power districts.....	2,080,385.53	
Power supplied at cost to Sandwich, Windsor & Amherstburg Railway Company and Windsor, Essex & Lake Shore Radial Railway Association.....	75,850.56	
		\$22,543,780.63
Add:		
Amounts due by certain municipalities, being the difference between the sums received (or billed) at interim monthly rates and the amounts charged—following annual adjustment—in respect of power supplied in the year.....	\$ 198,002.18	
Amounts due by municipalities comprising certain rural power districts, being the difference between the sums received from (or billed against) customers therein and the amounts charged to such districts—following annual adjustment—in respect of power supplied in the year.....	84,014.77	
		282,016.95
		\$22,825,797.58
Deduct:		
Amounts received from (or billed against) certain municipalities at interim monthly rates in excess of the amounts charged—following annual adjustment—in respect of power supplied in the year.....	\$ 74,895.33	
Amounts received from (or billed against) customers in certain rural power districts in excess of the amounts charged to such districts—following annual adjustment—in respect of power supplied in the year.....	44,179.03	
		119,074.36
Revenue.....		\$22,706,723.22

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\$22,706,723.22



## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1934	To Oct. 31 1934				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Acton.....	33.00	33.00	285,745.45	989.6	8,310.48	6,652.01	13,973.89
Agincourt.....	40.00	40.00	48,713.91	138.9	1,166.46	1,316.13	2,356.39
Ailsa Craig.....	48.00	51.00	34,357.03	84.9	712.98	1,653.07	1,595.72
Alvinston.....	90.00	90.00	60,476.87	74.9	629.00	2,315.81	2,799.45
Amherstburg.....	38.00	38.00	189,187.50	596.2	5,006.78	5,183.54	9,162.70
Ancaster twp.....	30.00	32.00	62,134.66	231.5	1,944.10	1,678.06	3,049.59
Arkona.....	75.00	75.00	30,662.48	49.3	414.01	1,419.31	1,445.50
Aylmer.....	35.00	36.00	136,895.58	455.9	3,828.57	3,950.14	6,626.92
Ayr.....	34.00	35.00	47,612.52	168.1	1,411.67	1,627.57	2,314.48
Baden.....	32.00	33.00	74,288.21	262.0	2,200.23	1,832.88	3,572.48
Beachville.....	33.00	33.00	106,663.13	379.1	3,183.61	2,993.98	5,156.32
Belle River.....	38.00	40.00	39,093.54	120.1	1,008.58	1,265.27	1,893.59
Blenheim.....	39.00	39.00	113,600.97	353.4	2,967.79	3,791.85	5,467.78
Blyth.....	58.00	56.00	40,026.21	88.3	741.53	1,429.31	1,905.72
Bolton.....	44.00	44.00	44,371.93	124.9	1,048.89	1,749.25	2,099.61
Bothwell.....	45.00	47.00	35,676.38	99.0	831.38	1,602.48	1,676.63
Brampton.....	30.00	31.50	515,790.86	2,023.7	16,994.67	15,218.66	25,272.55
Brantford.....	27.00	27.00	2,981,558.72	12,608.9	105,887.29	65,925.75	146,714.09
Brantford twp.....	30.00	32.00	141,116.61	567.8	4,768.28	4,971.83	6,990.07
Bridgeport.....	36.00	36.00	29,797.22	95.5	801.99	1,014.18	1,434.79
Brigden.....	65.00	65.00	36,614.71	67.5	566.85	1,499.20	1,713.52
Brussels.....	54.00	54.00	47,156.23	109.9	922.92	1,621.42	2,243.81
Burford.....	35.00	35.00	39,845.77	139.2	1,168.98	1,049.05	1,931.98
Burgessville.....	50.00	55.00	13,891.17	31.0	260.33	749.84	652.25
Caledonia.....	29.00	32.00	70,914.94	260.7	2,189.31	1,739.23	3,458.66
Campbellville.....	60.00	60.00	12,243.83	25.4	213.30	713.69	538.63
Cayuga.....	48.00	48.00	44,853.56	100.3	842.30	1,503.10	2,142.36
Chatham.....	30.00	31.00	1,097,311.58	4,109.0	34,506.65	28,236.13	53,411.36
Chippawa.....	25.00	25.00	47,255.26	225.8	1,896.23	1,399.78	2,349.10
Clifford.....	59.00	60.00	28,444.77	56.5	474.48	880.41	1,348.62
Clinton.....	38.00	39.00	141,406.35	436.3	3,663.97	4,230.80	6,802.36
Comber.....	50.00	50.00	55,570.32	141.2	1,185.77	2,156.38	2,636.70
Cottam.....	44.00	44.00	21,136.03	56.1	471.12	832.38	1,020.37
Courtright.....	72.00	75.00	21,988.47	37.4	314.08	879.96	1,033.27
Dashwood.....	50.00	53.00	16,541.11	38.3	321.64	672.85	765.96
Delaware.....	38.00	38.00	10,915.62	39.4	330.87	663.45	533.37
Dorchester.....	38.00	42.00	26,621.54	78.5	659.23	1,143.22	1,281.78
Drayton.....	58.00	60.00	43,035.53	86.7	728.09	1,493.43	2,031.24
Dresden.....	45.00	45.00	97,404.03	273.9	2,300.16	3,266.40	4,660.52
Drumbo.....	45.00	43.00	19,361.53	57.3	481.20	865.90	925.99

## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1934

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,407.54	2,777.51	34,121.43	2,474.00	31,647.43	32,656.23	1,008.80	.....
437.92	480.46	5,757.36	347.25	5,410.11	5,554.95	144.84	.....
348.21	338.37	4,648.35	212.25	4,436.10	4,287.41	.....	148.69
758.25	617.79	7,120.30	187.25	6,933.05	6,741.00	.....	192.05
1,654.40	1,852.85	22,860.27	1,490.50	21,369.77	22,654.61	1,284.84	.....
495.24	600.03	7,767.02	578.75	7,188.27	7,316.23	127.96	.....
362.98	311.13	3,952.93	123.25	3,829.68	3,699.97	.....	129.71
1,179.67	1,332.68	16,917.98	1,139.75	15,778.23	16,320.02	541.79	.....
393.99	461.59	6,209.30	420.25	5,789.05	5,854.98	65.93	.....
614.60	720.98	8,941.17	655.00	8,286.17	8,604.28	318.11	.....
877.68	1,034.55	13,246.14	947.75	12,298.39	12,509.74	211.35	.....
348.02	383.58	4,899.04	300.25	4,598.79	4,762.12	163.33	.....
1,015.39	1,113.65	14,356.46	883.50	13,472.96	13,781.66	308.70	.....
430.29	400.85	4,907.70	220.75	4,686.95	4,980.42	293.47	.....
422.77	436.29	5,756.81	312.25	5,444.56	5,497.03	52.47	.....
342.25	352.54	4,805.28	247.50	4,557.78	4,615.57	57.79	.....
3,877.66	4,958.53	66,322.07	5,059.25	61,262.82	63,259.43	1,996.61	.....
22,326.55	28,621.10	369,474.78	31,522.25	337,952.53	331,861.76	.....	6,090.77
1,037.29	1,353.18	19,120.65	1,419.50	17,701.15	17,966.70	265.55	.....
258.04	286.66	3,795.66	238.75	3,556.91	3,436.44	.....	120.47
416.82	369.74	4,566.13	168.75	4,397.38	4,385.29	.....	12.09
495.62	470.86	5,754.63	274.75	5,479.88	5,936.85	456.97	.....
333.14	387.06	4,870.21	348.00	4,522.21	4,872.83	350.62	.....
149.30	139.01	1,950.73	77.50	1,873.23	1,672.44	.....	200.79
571.78	685.60	8,644.58	651.75	7,992.83	8,201.11	208.28	.....
120.03	112.31	1,697.96	63.50	1,634.46	1,522.50	.....	111.96
483.62	448.78	5,420.16	250.75	5,169.41	4,814.80	.....	354.61
8,451.54	10,594.68	135,200.36	10,272.50	124,927.86	126,572.47	1,644.61	.....
295.46	444.84	6,385.41	564.50	5,820.91	5,645.13	.....	175.78
317.84	286.32	3,307.67	141.25	3,166.42	3,381.80	215.38	.....
1,280.28	1,387.06	17,364.47	1,090.75	16,273.72	16,455.84	182.12	.....
558.46	552.16	7,089.47	353.00	6,736.47	7,060.38	323.91	.....
205.71	209.46	2,739.04	140.25	2,598.79	2,466.53	.....	132.26
256.49	222.79	2,706.59	93.50	2,613.09	2,783.52	170.43	.....
173.36	164.07	2,097.88	95.75	2,002.13	2,007.05	4.92	.....
88.41	105.67	1,721.77	98.50	1,623.27	1,495.90	.....	127.37
249.02	261.68	3,594.93	196.25	3,398.68	3,237.50	.....	161.18
478.53	432.89	5,164.18	216.75	4,947.43	5,168.44	221.01	.....
927.39	961.67	12,116.14	684.75	11,431.39	12,327.26	895.87	.....
180.68	189.89	2,643.66	143.25	2,500.41	2,483.66	.....	16.75

## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1934	To Oct. 31 1934				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Dublin.....	58.00	59.00	17,083.98	34.5	289.72	883.69	802.24
Dundas.....	25.00	27.00	335,925.68	1,407.6	11,820.77	6,610.05	16,409.63
Dunnville.....	34.00	32.00	219,634.41	777.8	6,531.83	4,867.23	10,724.03
Dutton.....	38.00	38.00	58,833.95	203.9	1,712.32	2,297.77	2,851.73
East Windsor.....	31.00	32.00	717,207.95	2,499.0	20,986.16	17,690.87	34,846.37
Elmira.....	34.00	36.00	183,794.29	596.3	5,007.62	5,795.26	8,790.25
Elora.....	35.00	36.00	84,507.93	265.3	2,227.94	2,852.43	4,022.94
Embro.....	48.00	48.00	32,831.81	92.9	780.16	1,187.46	1,565.42
Erieau.....	56.00	56.00	32,064.06	74.0	621.44	1,271.32	1,536.42
Erie Beach.....	70.00	70.00	6,604.73	13.2	110.85	447.26	313.48
Essex.....	35.00	36.00	110,638.41	347.8	2,920.76	2,834.13	5,360.49
Etobicoke twp.....	28.00	28.00	864,412.73	3,518.9	29,551.09	19,317.45	42,884.96
Exeter.....	38.00	39.00	132,725.68	398.9	3,349.89	4,664.56	6,330.42
Fergus.....	35.00	36.00	229,768.99	738.0	6,197.59	6,752.66	11,168.09
Fonthill.....	36.00	36.00	29,608.30	117.5	986.74	1,089.84	1,468.17
Forest.....	48.00	48.00	122,892.76	316.9	2,661.27	4,539.08	5,887.14
Galt.....	27.00	27.00	1,370,716.63	5,544.9	46,565.08	33,396.81	66,911.19
Georgetown.....	35.00	37.00	321,218.31	1,011.8	8,496.92	7,709.09	15,500.15
Glencoe.....	58.00	58.00	75,947.20	159.0	1,335.25	2,892.76	3,598.52
Goderich.....	42.00	43.00	366,138.87	1,005.1	8,440.65	10,906.28	17,473.07
Granton.....	50.00	53.00	23,801.35	59.3	497.99	1,372.38	1,121.37
Guelph.....	28.00	28.00	1,913,873.18	7,802.0	65,519.80	44,076.19	93,923.61
Hagersville.....	31.00	33.00	182,369.67	594.2	4,989.99	3,574.67	8,718.84
Hamilton.....	24.50	24.50	19,325,788.79	86,484.8	726,283.92	384,636.12	966,168.06
Harriston.....	44.00	44.00	102,039.45	282.6	2,373.22	3,221.29	4,875.95
Harrow.....	38.00	39.00	108,075.43	323.0	2,712.50	3,026.69	5,245.55
Hensall.....	50.00	52.00	61,339.37	139.0	1,167.30	2,229.40	2,899.28
Hespeler.....	29.00	29.00	416,688.18	1,675.6	14,071.39	10,483.75	20,573.82
Highgate.....	48.00	47.00	24,478.14	65.9	553.42	937.67	1,159.34
Humberstone.....	28.00	29.00	83,807.22	330.7	2,777.16	1,856.08	4,140.76
Ingersoll.....	28.00	29.00	507,927.34	1,925.0	16,165.81	12,595.93	24,732.41
Jarvis.....	38.00	40.00	52,742.92	137.1	1,151.34	1,439.83	2,522.00
Kingsville.....	38.00	38.00	141,675.03	420.1	3,527.92	4,201.61	6,831.34
Kitchener.....	27.00	27.00	3,843,652.87	15,642.9	131,366.28	79,601.82	188,815.72
Lambeth.....	42.00	42.00	34,078.56	104.7	879.25	1,427.44	1,644.92
LaSalle.....	35.00	35.00	53,604.42	172.8	1,451.14	1,790.17	2,605.74
Leamington.....	37.00	37.00	363,516.65	1,079.8	9,067.97	10,211.68	17,629.10
Listowel.....	37.00	37.00	254,025.98	828.4	6,956.76	7,687.53	12,306.36
London.....	26.00	26.00	6,963,438.63	29,055.4	244,002.07	149,632.89	342,620.25
London Railway Commission.....			289,154.08	944.4	7,930.90	10,098.58	13,763.97



## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1934

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
189.82	171.83	2,337.30	86.25	2,251.05	2,031.33		219.72
2,382.49	3,207.22	40,430.16	3,519.00	36,911.16	37,516.95	605.79	
1,865.01	2,131.00	26,119.10	1,944.50	24,174.60	25,186.19	1,011.59	
493.06	571.79	7,926.67	509.75	7,416.92	7,749.11	332.19	
5,797.34	6,968.33	86,289.07	6,247.50	80,041.57	79,529.28		512.29
1,619.65	1,795.88	23,008.66	1,490.75	21,517.91	21,288.74		229.17
763.12	827.20	10,693.63	663.25	10,030.38	9,500.36		530.02
314.59	323.36	4,170.99	232.25	3,938.74	4,459.60	520.86	
336.83	320.35	4,086.36	185.00	3,901.36	4,142.11	240.75	
73.37	66.46	1,011.42	33.00	978.42	925.71		52.71
969.22	1,083.76	13,168.36	869.50	12,298.86	12,457.99	159.13	
6,192.63	8,279.38	106,225.51	8,797.25	97,428.26	98,528.71	1,100.45	
1,212.14	1,292.35	16,849.36	997.25	15,852.11	15,495.06		357.05
2,044.50	2,246.10	28,408.94	1,845.00	26,563.94	26,445.06		118.88
228.55	284.32	4,057.62	293.75	3,763.87	4,229.40	465.53	
1,221.57	1,219.87	15,528.93	792.25	14,736.68	15,209.60	472.92	
10,009.56	13,137.83	170,020.47	13,862.25	156,158.22	149,713.47		6,444.75
2,897.96	3,146.06	37,750.18	2,529.50	35,220.68	37,094.36	1,873.68	
829.54	762.58	9,418.65	397.50	9,021.15	9,222.92	201.77	
3,555.38	3,620.60	43,995.98	2,512.75	41,483.23	41,795.07	311.84	
241.50	235.14	3,468.38	148.25	3,320.13	3,104.75		215.38
13,897.20	18,330.42	235,747.22	19,505.00	216,242.22	218,455.84	2,213.62	
1,614.42	1,781.02	20,678.94	1,485.50	19,193.44	19,462.75	269.31	
128,445.31	183,309.25	2,388,842.66	216,212.00	2,172,630.66	2,118,878.73		53,751.93
986.05	1,008.47	12,464.98	706.50	11,758.48	12,435.93	677.45	
980.04	1,062.57	13,027.35	807.50	12,219.85	12,547.15	327.30	
648.83	609.23	7,554.04	347.50	7,206.54	7,176.10		30.44
3,061.90	3,996.15	52,187.01	4,189.00	47,998.01	48,591.83	593.82	
238.78	242.36	3,131.57	164.75	2,966.82	3,107.11	140.29	
642.81	804.84	10,221.65	826.75	9,394.90	9,529.68	134.78	
3,951.16	4,898.55	62,343.86	4,812.50	57,531.36	55,481.15		2,050.21
532.12	522.94	6,168.23	342.75	5,825.48	5,433.76		391.72
1,291.31	1,393.68	17,245.86	1,050.25	16,195.61	15,963.32		232.29
27,814.84	36,814.94	464,413.60	39,107.25	425,306.35	422,356.91		2,949.44
311.02	334.21	4,596.84	261.75	4,335.09	4,398.10	63.01	
461.06	524.07	6,832.18	432.00	6,400.18	6,047.92		352.26
3,308.63	3,574.88	43,792.26	2,699.50	41,092.76	39,951.28		1,141.48
2,213.85	2,481.33	31,645.83	2,071.00	29,574.83	30,649.03	1,074.20	
48,895.64	66,488.78	851,639.63	72,638.50	779,001.13	755,439.07		23,562.06
2,532.25	2,822.81	37,148.51	2,361.00	34,787.51	27,931.72		6,855.79

## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1934	To Oct. 31 1934				Operating, main-tenance and adminis-trative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
London twp .....	34.00	34.00	99,056.72	354.0	2,972.83	3,312.33	4,849.12
Long Branch .....	30.00	30.00	177,644.71	687.4	5,772.66	3,955.29	8,857.11
Lucan .....	37.00	38.00	40,222.19	134.8	1,132.03	1,805.14	1,905.43
Lynden .....	40.00	40.00	25,868.73	83.0	697.02	904.15	1,224.22
Markham .....	43.00	43.00	70,735.17	227.4	1,909.66	3,385.92	3,433.52
Merlin .....	45.00	48.00	27,970.44	71.7	602.12	1,003.99	1,318.04
Merritton .....	23.00	23.00	665,306.67	3,288.4	27,615.40	14,970.58	33,715.59
Milton .....	34.00	35.00	187,610.19	642.1	5,392.24	6,419.52	8,874.95
Milverton .....	35.00	36.00	76,280.13	243.7	2,046.55	2,079.46	3,593.51
Mimico .....	26.00	26.00	485,194.07	2,075.8	17,432.20	10,404.49	24,030.24
Mitchell .....	33.00	33.00	124,704.89	439.0	3,686.64	4,175.66	6,042.15
Moorefield .....	61.00	65.00	19,639.29	37.3	313.24	794.14	911.38
Mount Brydges .....	42.00	42.00	28,361.28	94.0	789.40	1,421.04	1,378.73
Newbury .....	54.00	54.00	17,760.22	41.2	345.99	677.31	845.93
New Hamburg .....	35.00	35.00	125,396.16	412.9	3,467.46	3,261.54	6,022.89
New Toronto .....	30.00	30.00	1,300,325.87	5,010.3	42,075.61	28,267.45	63,622.85
Niagara Falls .....	19.00	19.00	1,600,184.56	8,562.2	71,903.83	29,813.85	80,515.02
Niagara-on-the-Lake .....	27.00	27.00	105,041.66	498.0	4,182.12	2,816.61	5,256.90
Norwich .....	34.00	35.00	94,269.72	313.4	2,631.88	3,164.92	4,532.03
Oil Springs .....	45.00	44.00	63,246.88	170.9	1,435.19	2,106.64	2,999.03
Otterville .....	45.00	46.00	29,924.53	78.7	660.91	1,267.44	1,431.68
Palmerston .....	40.00	40.00	136,120.10	419.8	3,525.41	4,290.45	6,556.54
Paris .....	28.00	28.00	281,393.75	1,129.5	9,485.34	7,023.89	13,719.78
Parkhill .....	62.00	62.00	66,592.63	125.3	1,052.25	2,747.60	3,113.54
Petrolia .....	40.00	40.00	283,889.25	842.1	7,071.80	8,800.01	13,587.78
Plattsville .....	55.00	55.00	24,299.95	55.8	468.60	1,042.44	1,143.27
Point Edward .....	40.00	40.00	200,963.43	692.7	5,817.17	8,248.60	9,813.68
Port Colborne .....	29.00	29.00	314,194.66	1,239.8	10,411.62	6,863.49	15,443.48
Port Credit .....	33.00	34.00	151,954.11	556.4	4,672.55	4,848.62	7,454.02
Port Dalhousie .....	30.00	30.00	130,036.92	530.0	4,450.85	3,962.14	6,433.39
Port Dover .....	40.00	40.00	94,899.43	289.7	2,432.85	2,646.91	4,594.04
Port Rowan .....	62.00	62.00	28,791.84	57.8	485.39	1,079.11	1,357.66
Port Stanley .....	40.00	40.00	124,378.23	384.3	3,227.28	3,724.50	5,888.33
Preston .....	27.00	27.00	558,641.43	2,296.5	19,285.60	13,665.86	27,132.87
Princeton .....	50.00	50.00	38,284.15	100.4	843.14	1,616.91	1,835.59
Queenston .....	29.00	29.00	19,818.16	87.7	736.49	635.40	981.33
Richmond Hill .....	36.00	35.00	86,708.63	295.4	2,480.72	2,624.80	4,248.97
Ridgetown .....	38.00	38.00	128,078.19	403.3	3,386.84	4,361.73	6,174.22
Riverside .....	33.00	34.00	326,335.77	1,059.1	8,894.13	7,057.92	15,864.54
Rockwood .....	42.00	42.00	31,630.64	88.5	743.21	835.41	1,509.38

SYSTEM N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it  
reserve of the system and proportionately applied in reduction of such  
Municipality; and the amount remaining to be credited or  
supplied to it in the year ending October 31, 1934

costs and fixed charges		Total cost of power for year	Amount appropriat- ed from contingency reserve and pro- portionate- ly applied in reduc- tion of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
799.47	953.04	12,886.79	885.00	12,001.79	12,036.53	34.74	.....
1,341.58	1,709.89	21,636.53	1,718.50	19,918.03	20,621.00	702.97	.....
340.67	388.33	5,571.60	337.00	5,234.60	5,099.70	.....	134.90
231.42	252.94	3,309.75	207.50	3,102.25	3,319.30	217.05	.....
580.53	690.85	10,000.48	568.50	9,431.98	9,778.17	346.19	.....
279.88	277.79	3,481.82	179.25	3,302.57	3,400.49	97.92	.....
3,890.32	6,236.01	86,427.90	8,221.00	78,206.90	75,632.21	.....	2,574.69
1,576.22	1,816.00	24,078.93	1,605.25	22,473.68	22,359.86	.....	113.82
674.55	746.30	9,140.37	609.25	8,531.12	8,727.94	196.82	.....
3,282.17	4,623.77	59,772.87	5,189.50	54,583.37	53,971.20	.....	612.17
1,024.45	1,210.57	16,139.47	1,097.50	15,041.97	14,486.25	.....	555.72
219.41	195.74	2,433.91	93.25	2,340.66	2,396.71	56.05	.....
245.71	276.52	4,111.40	235.00	3,876.40	3,948.70	72.30	.....
186.15	177.38	2,232.76	103.00	2,129.76	2,227.05	97.29	.....
1,093.45	1,223.84	15,069.18	1,032.25	14,036.93	14,451.49	414.56	.....
9,861.56	12,521.22	156,348.69	12,525.75	143,822.94	150,308.00	6,485.06	.....
8,326.79	14,849.20	205,408.69	21,405.50	184,003.19	162,682.45	.....	21,320.74
665.84	991.06	13,912.53	1,245.00	12,667.53	13,447.09	779.56	.....
816.64	919.18	12,064.65	783.50	11,281.15	10,917.30	.....	363.85
613.34	625.97	7,780.17	427.25	7,352.92	7,549.90	196.98	.....
298.89	296.65	3,955.57	196.75	3,758.82	3,606.35	.....	152.47
1,232.79	1,335.26	16,940.45	1,049.50	15,890.95	16,792.59	901.64	.....
2,073.05	2,698.59	35,000.65	2,823.75	32,176.90	31,625.46	.....	551.44
752.31	666.66	8,332.36	313.25	8,019.11	7,770.60	.....	248.51
2,605.70	2,792.24	34,857.53	2,105.25	32,752.28	34,622.09	1,869.81	.....
257.67	242.25	3,154.23	139.50	3,014.73	3,066.21	51.48	.....
1,654.80	1,953.96	27,488.21	1,731.75	25,756.46	27,706.63	1,950.17	.....
2,409.90	3,017.38	38,145.87	3,099.50	35,046.37	35,955.36	908.99	.....
1,218.31	1,470.09	19,663.59	1,391.00	18,272.59	18,811.56	538.97	.....
969.45	1,245.36	17,061.19	1,325.00	15,736.19	15,900.75	164.56	.....
873.11	931.71	11,478.62	724.25	10,754.37	11,586.30	831.93	.....
319.41	287.79	3,529.36	144.50	3,384.86	3,586.14	201.28	.....
1,098.58	1,196.49	15,135.18	960.75	14,174.43	15,371.97	1,197.54	.....
4,009.66	5,345.81	69,439.80	5,741.25	63,698.55	62,004.78	.....	1,693.77
382.01	378.63	5,056.28	251.00	4,805.28	5,020.78	215.50	.....
137.06	188.42	2,678.70	219.25	2,459.45	2,542.54	83.09	.....
677.82	843.90	10,876.21	738.50	10,137.71	10,393.61	255.90	.....
1,135.30	1,254.43	16,312.52	1,008.25	15,304.27	15,324.60	20.33	.....
2,792.75	3,188.86	37,798.20	2,647.75	35,150.45	35,814.44	663.99	.....
306.51	312.40	3,706.91	221.25	3,485.66	3,716.65	230.99	.....



NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse- power supplied in year after correction for power factor	Cost of power pur- chased	Share of operating	
	To Jan. 1 1934	To Oct. 31 1934				Operating, main- tenance and adminis- trative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Rodney.....	45.00	48.00	46,855.77	117.5	986.74	2,242.23	2,237.57
St. Catharines.....	23.00	23.00	1,752,960.89	8,621.9	72,405.18	39,048.65	87,821.96
St. Clair Beach.....	38.00	40.00	20,303.43	58.9	494.63	547.06	974.07
St. George.....	42.00	42.00	45,288.28	141.9	1,191.65	1,565.64	2,185.95
St. Jacobs.....	32.00	34.00	43,085.22	152.6	1,281.51	1,479.95	2,092.92
St. Marys.....	34.00	36.00	368,601.33	1,304.3	10,953.28	13,397.29	17,848.91
St. Thomas.....	28.00	28.00	1,448,690.30	5,963.2	50,077.89	38,644.20	71,237.40
Sandwich.....	32.00	32.00	813,438.32	2,718.7	22,831.16	17,678.68	39,508.44
Sarnia.....	34.00	34.00	2,129,661.85	7,250.7	60,890.08	53,200.15	103,564.63
Scarboro twp.....	32.00	32.00	779,953.76	2,724.5	22,879.86	16,787.36	38,227.22
Seaforth.....	35.00	35.00	132,142.70	435.3	3,655.57	3,795.70	6,303.62
Simcoe.....	31.00	31.00	395,604.16	1,504.7	12,636.20	9,499.19	19,477.89
Springfield.....	48.00	50.00	25,553.52	57.3	481.20	1,012.21	1,202.63
Stamford twp.....	21.00	21.00	319,374.69	1,695.8	14,241.03	6,727.34	16,108.32
Stouffville.....	46.00	46.00	72,204.86	182.7	1,534.28	2,555.21	3,408.92
Stratford.....	30.00	30.00	1,673,977.90	6,490.7	54,507.74	42,518.49	81,693.07
Strathroy.....	34.00	34.00	255,617.72	913.3	7,669.73	7,184.26	12,417.70
Sutton.....	55.00	55.00	74,691.01	170.9	1,435.19	2,917.85	3,574.94
Tavistock.....	37.00	37.00	144,722.26	481.1	4,040.19	4,010.73	7,014.64
Tecumseh.....	37.00	38.00	87,835.99	264.4	2,220.38	2,141.64	4,237.96
Thamesford.....	40.00	40.00	53,549.16	168.1	1,411.67	1,682.67	2,578.46
Thamesville.....	42.00	41.00	50,517.09	162.4	1,363.81	1,883.49	2,436.02
Thedford.....	72.00	68.00	39,915.08	74.6	626.48	1,808.24	1,886.45
Thorndale.....	65.00	65.00	20,151.96	38.8	325.84	1,006.77	936.08
Thorold.....	25.00	25.00	390,474.83	1,794.6	15,070.73	9,057.04	19,750.61
Tilbury.....	38.00	38.00	138,940.76	430.4	3,614.42	4,334.66	6,693.12
Tillsonburg.....	33.00	33.00	239,854.46	820.1	6,887.05	7,456.27	11,596.37
Toronto.....	26.10	26.10	62,265,661.85	254,386.2	2,136,289.92	1,086,797.72	3,066,902.45
Toronto twp.....	32.00	32.00	435,727.83	1,656.8	13,913.51	12,359.48	21,481.96
Walkerville.....	28.00	28.00	1,991,001.92	7,388.3	62,045.63	40,986.16	97,140.42
Wallaceburg.....	36.00	37.00	544,170.69	1,706.4	14,330.04	15,093.35	26,197.64
Wardsville.....	62.00	62.00	14,856.55	31.0	260.33	710.95	705.27
Waterdown.....	32.00	32.00	58,467.77	210.7	1,769.42	1,472.71	2,827.06
Waterford.....	32.00	32.00	103,794.92	377.0	3,165.98	2,516.82	5,063.48
Waterloo.....	27.00	27.00	738,778.84	2,965.3	24,902.06	17,005.92	36,201.42
Watford.....	55.00	55.00	78,790.40	183.9	1,544.36	2,802.87	3,748.24
Welland.....	24.00	24.00	859,347.50	3,906.2	32,803.57	15,521.20	42,638.86
Wellesley.....	50.00	50.00	41,084.40	97.3	817.11	1,520.29	1,914.26
West Lorne.....	40.00	40.00	31,359.63	96.1	807.03	1,557.76	1,438.84
Weston.....	27.00	27.00	659,403.53	2,755.8	23,142.72	14,905.95	32,423.42

## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1934

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
478.50	465.90	6,410.94	293.75	6,117.19	5,569.80	.....	547.39
10,331.89	16,442.72	226,050.40	21,554.75	204,495.65	198,302.87	.....	6,192.78
187.64	200.03	2,403.43	147.25	2,256.18	2,344.57	88.39	.....
409.71	443.77	5,796.72	354.75	5,441.97	5,957.70	515.73	.....
355.21	417.99	5,627.58	381.50	5,246.08	5,136.79	.....	109.29
2,955.17	3,576.45	48,731.10	3,260.75	45,470.35	46,541.41	1,071.06	.....
10,338.89	13,859.02	184,157.40	14,908.00	169,249.40	166,970.28	.....	2,279.12
6,804.88	7,930.30	94,753.46	6,796.75	87,956.71	86,997.56	.....	959.15
17,713.33	20,727.79	256,095.98	18,126.75	237,969.23	246,522.17	8,552.94	.....
5,955.29	7,575.41	91,425.14	6,811.25	84,613.89	87,183.15	2,569.26	.....
1,143.22	1,289.76	16,187.87	1,088.25	15,099.62	15,236.80	137.18	.....
3,074.81	3,814.74	48,502.83	3,761.75	44,741.08	46,645.18	1,904.10	.....
273.54	255.40	3,224.98	143.25	3,081.73	2,848.01	.....	233.72
1,669.29	2,955.11	41,701.09	4,239.50	37,461.59	35,612.81	.....	1,848.78
678.60	703.94	8,880.95	456.75	8,424.20	8,406.09	.....	18.11
12,598.70	16,110.49	207,428.49	16,226.75	191,201.74	194,722.25	3,520.51	.....
2,088.18	2,476.75	31,836.62	2,283.25	29,553.37	31,052.73	1,499.36	.....
760.10	746.42	9,434.50	427.25	9,007.25	9,398.54	391.29	.....
1,243.64	1,411.53	17,720.73	1,202.75	16,517.98	17,798.87	1,280.89	.....
792.75	863.14	10,255.87	661.00	9,594.87	10,005.24	410.37	.....
481.35	523.93	6,678.08	420.25	6,257.83	6,721.96	464.13	.....
441.29	494.00	6,618.61	406.00	6,212.61	6,690.52	477.91	.....
452.14	402.65	5,175.96	186.50	4,989.46	5,138.02	148.56	.....
228.03	202.98	2,699.70	97.00	2,602.70	2,520.88	.....	81.82
2,598.85	3,737.07	50,214.30	4,486.50	45,727.80	44,815.83	.....	911.97
1,245.44	1,362.49	17,250.13	1,076.00	16,174.13	16,353.91	179.78	.....
2,034.51	2,333.37	30,307.57	2,050.25	28,257.32	27,062.82	.....	1,194.50
397,602.61	596,134.40	7,283,727.10	635,965.50	6,647,761.60	6,639,478.47	.....	8,283.13
3,360.20	4,200.68	55,315.83	4,142.00	51,173.83	53,017.30	1,843.47	.....
15,197.70	19,239.04	234,608.95	18,470.75	216,133.20	206,872.68	.....	9,265.52
4,837.44	5,331.44	65,789.91	4,266.00	61,523.91	62,797.87	1,273.96	.....
162.47	149.20	1,988.22	77.50	1,910.72	1,920.42	9.70	.....
479.43	566.25	7,114.87	526.75	6,588.12	6,742.13	154.01	.....
840.57	1,005.02	12,591.87	942.50	11,649.37	12,064.63	415.26	.....
5,425.22	7,085.78	90,620.40	7,413.25	83,207.15	80,064.17	.....	3,142.98
821.05	786.60	9,703.12	459.75	9,243.37	10,114.00	870.63	.....
5,723.05	8,136.16	104,872.84	9,765.50	95,107.34	93,749.32	.....	1,358.02
424.98	405.80	5,082.44	243.25	4,839.19	4,865.78	26.59	.....
286.87	307.71	4,398.21	240.25	4,157.96	3,842.96	.....	315.00
4,582.74	6,296.59	81,351.42	6,889.50	74,461.92	74,407.02	.....	54.90

## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1934	To Oct. 31 1934				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Wheatley.....	50.00	53.00	55,699.53	118.4	994.30	1,815.02	2,650.16
Windsor.....	28.00	28.00	5,435,671.09	20,200.4	169,639.36	108,801.39	264,707.44
Woodbridge.....	35.00	35.00	87,790.52	296.3	2,488.27	2,503.53	4,245.35
Woodstock.....	27.00	28.00	1,188,583.85	4,721.1	39,646.96	27,784.37	58,320.45
Wyoming.....	56.00	54.00	27,081.05	60.8	510.59	1,033.68	1,283.16
York East twp.....	32.00	32.00	1,264,772.47	5,142.5	43,185.80	49,481.37	62,853.48
York North twp....	32.00	32.00	743,389.81	2,703.9	22,706.87	22,131.51	36,736.70
Zurich.....	62.00	65.00	37,744.91	71.5	600.44	1,598.10	1,757.21
Toronto Transportation Comm.			89,830.35	335.8	2,819.99	2,486.11	3,658.77
Sandwich, Windsor and Amherstburg Railway Co.....			702,595.31	2,550.7	21,420.32	13,780.62	34,377.11
Windsor, Essex and Lake Shore Railway Association.....			4,514.03			81.51	165.78
Totals—Municipalities .....			144,384,757.46	583,895.5	4,903,450.24	3,006,310.04	7,106,450.75
RURAL POWER DISTRICTS			\$ c.		\$ c.	\$ c.	\$ c.
Acton R.P.D.—Erin, Esquesing and Nassagaweya twps.....			2,887.50	10.0	83.98	71.84	140.85
Ailsa Craig R.P.D.—Lobo, McGillivray and Williams E. twps.			2,164.07	5.6	47.03	73.02	103.63
Alvinston R.P.D.—Brooke twp.			2,664.54	3.3	27.71	97.56	124.74
Amherstburg R.P.D.—Anderdon, Colchester N., Colchester S. and Malden twps.....			171,709.95	515.0	4,324.87	4,231.77	8,284.70
Aylmer R.P.D.—Bayham, Dereham, Dorchester N., Dorchester S., Malahide and Yarmouth twps.....			83,435.46	269.6	2,264.06	2,056.43	4,037.23
Ayr R.P.D.—Blenheim, Dumfries N. and Dumfries S. twps.			11,620.61	42.5	356.90	396.05	568.85
Baden R.P.D.—Blandford, Blenheim, Easthope N., Easthope S., Waterloo, Wellesley, Wilmot and Zorra E. twps.....			100,089.30	354.3	2,975.35	2,235.15	4,899.96
Beamsville R.P.D.—Caistor, Clinton, Gainsborough, Grimsby N., Grimsby S., Louth, Pelham and Wainfleet twps....			281,373.99	1,013.8	8,513.72	9,305.70	13,816.16
Belle River R.P.D.—Maidstone and Rochester twps.....			62,602.56	195.3	1,640.09	1,618.26	3,009.23
Blenheim R.P.D.—Raleigh and Harwich twps.....			35,681.11	111.0	932.16	913.71	1,719.37



SYSTEM

N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1934

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
600.48	558.78	6,618.74	296.00	6,322.74	6,215.76	.....	106.98
41,432.97	52,517.95	637,099.11	50,501.00	586,598.11	565,610.45	.....	20,987.66
744.86	853.93	10,835.94	740.75	10,095.19	10,370.74	275.55	.....
8,833.17	11,412.36	145,997.31	11,802.75	134,194.56	131,356.45	.....	2,838.11
286.93	270.93	3,385.29	152.00	3,233.29	3,307.81	74.52	.....
8,128.48	12,114.79	175,763.92	12,856.25	162,907.67	164,560.49	1,652.82	.....
5,494.91	7,194.42	94,264.41	6,759.75	87,504.66	86,525.56	.....	979.10
426.67	378.59	4,761.01	178.75	4,582.26	4,608.57	26.31	.....
707.11	867.47	10,539.45	839.50	9,699.95	10,671.40	971.45	.....
5,475.34	6,802.37	81,855.76	6,376.75	75,479.01	75,479.01	.....	.....
73.02	51.24	371.55	.....	371.55	371.55	.....	.....
1,001,225.72	1,383,875.90	17,401,312.65	1,459,738.75	15,941,573.90	15,818,467.05	74,895.33	198,002.18
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
24.33	28.07	349.07	25.00	324.07	324.07	see page	179
21.49	21.29	266.46	14.00	252.46	252.46	"	"
33.41	27.21	310.63	8.25	302.38	302.38	"	"
1,553.46	1,687.77	20,082.57	1,287.50	18,795.07	18,795.07	"	"
734.85	814.23	9,906.80	674.00	9,232.80	9,232.80	"	"
93.38	112.35	1,527.53	106.25	1,421.28	1,421.28	"	"
825.46	970.98	11,906.90	885.75	11,021.15	11,021.15	"	"
2,270.35	2,715.49	36,621.42	2,534.50	34,086.92	34,086.92	"	"
551.38	613.57	7,432.53	488.25	6,944.28	6,944.28	"	"
318.92	349.78	4,233.94	277.50	3,956.44	3,956.44	"	"

## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
<b>Bond Lake R.P.D.</b> —King, Markham, Vaughan, Whitchurch and York N. twps.....	277,686.12	871.4	7,317.86	8,709.54	13,519.82
<b>Bothwell R.P.D.</b> —Aldborough, Ekfrid, Mosa, Orford and Zone twps.....	46,292.12	120.9	1,015.30	1,385.93	2,223.49
<b>Brampton R.P.D.</b> —Chingua-cousy and Toronto twps.....	31,813.43	122.4	1,027.89	1,398.03	1,562.85
<b>Brant R.P.D.</b> —Blenheim, Brantford, Burford, Dumfries S., Oakland and Onondaga twps.....	114,496.84	449.5	3,774.82	3,817.15	5,637.98
<b>Brigden R.P.D.</b> —Moore and Sombra twps.....	17,199.55	32.7	274.60	509.22	809.66
<b>Burford R.P.D.</b> —Brantford, Burford, Oakland, Townsend and Windham twps.....	44,998.23	157.2	1,320.14	1,013.47	2,205.89
<b>Caledonia R.P.D.</b> —Ancaster, Barton, Binbrook, Caistor, Glanford, Grimsby S., Oneida, Onondaga and Seneca twps....	80,154.45	289.9	2,434.52	1,968.46	3,932.14
<b>Chatham R.P.D.</b> —Chatham, Dover, Harwich and Raleigh twps.....	118,716.17	439.7	3,692.52	3,008.26	5,806.16
<b>Chippawa R.P.D.</b> —Bertie, Crowland and Willoughby twps.....	21,085.73	98.3	825.50	519.33	1,033.24
<b>Clinton R.P.D.</b> —Goderich, Hay, Hullett, Stanley and Tuckersmith twps.....	42,822.82	122.6	1,029.57	1,466.38	2,068.97
<b>Delaware R.P.D.</b> —Caradoc, Delaware, Ekfrid, Lobo, London, Southwold and Westminster twps.....	75,738.55	273.5	2,296.81	2,025.62	3,678.37
<b>Dorchester R.P.D.</b> —Dorchester N., Dorchester S., London, Nissouri E., Nissouri W., Oxford N., Westminster and Yarmouth twps.....	89,976.49	301.2	2,529.42	2,223.33	4,326.29
<b>Dresden R.P.D.</b> —Camden, Chatham and Dawn twps.....	13,244.45	37.3	313.24	361.47	641.93
<b>Drumbo R.P.D.</b> —Blandford, Blenheim and Burford twps...	32,828.32	83.5	701.22	1,299.71	1,557.85
<b>Dundas R.P.D.</b> —Ancaster, Beverly, Flamboro E., Flamboro W., Glanford and Nelson twps.....	140,063.17	566.6	4,758.19	2,747.81	6,907.95

## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1934

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,328.22	2,720.07	34,595.51	2,178.50	32,417.01	32,417.01	see page	179
458.87	459.21	5,542.80	302.25	5,240.55	5,240.55	"	"
243.79	306.40	4,538.96	306.00	4,232.96	4,232.96	"	"
863.07	1,100.67	15,193.69	1,123.75	14,069.94	14,069.94	"	"
193.90	173.47	1,960.85	81.75	1,879.10	1,879.10	"	"
376.22	437.12	5,352.84	393.00	4,959.84	4,959.84	"	"
655.28	776.07	9,766.47	724.75	9,041.72	9,041.72	"	"
923.81	1,147.35	14,578.10	1,099.25	13,478.85	13,478.85	"	"
136.32	199.06	2,713.45	245.75	2,467.70	2,467.70	"	"
406.10	422.28	5,393.30	306.50	5,086.80	5,086.80	"	"
613.19	733.18	9,347.17	683.75	8,663.42	8,663.42	see page	181
772.84	875.89	10,727.77	753.00	9,974.77	9,974.77	"	"
125.99	130.75	1,573.38	93.25	1,480.13	1,480.13	"	"
332.55	325.31	4,216.64	208.75	4,007.89	4,007.89	"	"
1,043.19	1,343.39	16,800.53	1,416.50	15,384.03	15,384.03	"	"



## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
Dunnville R.P.D.—Canborough, Dunn and Moulton twps.....	11,147.72	40.0	335.91	390.01	549.38
Dutton R.P.D.—Aldborough and Dunwich twps.....	39,095.36	122.7	1,030.41	1,545.51	1,904.80
Elmira R.P.D.—Peel, Pilkington and Woolwich twps.....	22,705.78	73.7	618.92	632.64	1,110.94
Elora R.P.D.—Garafraxa W., Nichol, Peel and Pilkington twps.....	31,619.26	97.2	816.27	929.69	1,525.45
Essex R.P.D.—Colchester N., Gosfield N., Gosfield S., Maidstone, Mersea, Rochester and Sandwich S. twps.....	59,327.35	186.5	1,566.19	1,363.39	2,863.80
Exeter R.P.D.—Biddulph, Bosanquet, Hay, Hibbert, Stephen, Tuckersmith and Usborne twps.....	104,222.72	274.9	2,308.56	3,138.49	4,972.33
Forest R.P.D.—Adelaide, Bosanquet, Plympton, Warwick and Williams W. twps.....	13,641.87	32.5	272.93	443.95	652.11
Galt R.P.D.—Beverly, Dumfries N. Dumfries S. and Puslinch twps.....	46,459.79	184.2	1,546.88	2,175.41	2,292.73
Georgetown R.P.D.—Chingua-cousy, Erin and Esquesing tps.	38,236.59	120.7	1,013.62	912.23	1,856.72
Goderich R.P.D.—Ashfield, Colborne, Goderich and Wawanosh W. twps.....	39,082.35	85.2	715.49	1,248.72	1,866.55
Grantham R.P.D.—Grantham and Niagara twps.....	146,145.01	616.0	5,173.06	5,446.14	7,133.37
Guelph R.P.D.—Eramosa, Guelph, Nassagaweya and Puslinch twps.....	113,691.94	411.6	3,456.54	2,571.00	5,601.23
Haldimand R.P.D.—Cayuga N., Oneida, Rainham, Seneca and Walpole twps.....	62,827.20	164.5	1,381.44	1,648.50	3,030.15
Harriston R.P.D.—Howick and Minto twps.....	7,006.88	17.6	147.80	190.30	336.72
Harrow R.P.D.—Colchester N., Colchester S., Gosfield S. and Malden twps.....	120,715.51	350.6	2,944.27	3,072.27	5,850.13
Ingersoll R.P.D.—Dereham, Dorchester N., Nissouri E., Oxford N., Oxford W., Zorra E. and Zorra W. twps.....	107,646.66	349.8	2,937.56	2,958.20	5,233.52

## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1934

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
93.61	108.03	1,476.94	100.00	1,376.94	1,376.94	see page	181
352.09	382.96	5,215.77	306.75	4,909.02	4,909.02	"	"
200.01	221.85	2,784.36	184.25	2,600.11	2,600.11	"	"
289.35	310.00	3,870.76	243.00	3,627.76	3,627.76	"	"
519.73	581.16	6,894.27	466.25	6,428.02	6,428.02	"	"
1,026.80	1,025.02	12,471.20	687.25	11,783.95	11,783.95	"	"
140.82	136.01	1,645.82	81.25	1,564.57	1,564.57	"	"
346.40	446.18	6,807.60	460.50	6,347.10	6,347.10	"	"
344.47	374.44	4,501.48	301.75	4,199.73	4,199.73	"	"
422.11	391.63	4,644.50	213.00	4,431.50	4,431.50	"	"
1,021.68	1,370.96	20,145.21	1,540.00	18,605.21	18,605.21	"	"
924.10	1,101.01	13,653.88	1,029.00	12,624.88	12,624.88	"	"
632.08	622.97	7,315.14	411.25	6,903.89	6,903.89	"	"
71.18	69.66	815.66	44.00	771.66	771.66	"	"
1,114.88	1,189.21	14,170.76	876.50	13,294.26	13,294.26	see page	183
946.58	1,050.82	13,126.68	874.50	12,252.18	12,252.18	"	"

## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
<b>Jordan R.P.D.</b> —Grantham, Louth, Pelham and Thorold twps.....	67,464.80	282.0	2,368.19	1,594.69	3,208.77
<b>Keswick R.P.D.</b> —Georgina, Gwillimbury E. and Gwillimbury N. twps.....	156,884.49	421.1	3,536.32	5,450.28	7,575.34
<b>Kingsville R.P.D.</b> —Gosfield N., Gosfield S., Mersea and Romney twps.....	194,399.37	572.5	4,807.75	4,571.29	9,344.48
<b>Listowel R.P.D.</b> —Elma, Grey, Maryborough, Mornington, Peel, Wallace and Wellesley twps.....	41,887.92	136.6	1,147.14	1,142.83	2,041.36
<b>London R.P.D.</b> —Delaware, Lobo, London, Nissouri W. and Westminster twps.....	410,325.75	1,485.0	12,470.77	10,466.84	20,043.13
<b>Lucan R.P.D.</b> —Biddulph, London, McGillivray and Stephen twps.....	17,042.77	57.2	480.35	587.94	816.72
<b>Lynden R.P.D.</b> —Ancaster, Beverly, Brantford and Dumfries S. twps.....	47,538.30	156.8	1,316.78	1,408.63	2,298.44
<b>Markham R.P.D.</b> —Markham, Pickering, Scarboro, Uxbridge and Whitechurch twps.....	118,479.07	375.2	3,150.87	3,578.80	5,739.23
<b>Merlin R.P.D.</b> —Raleigh, Romney and Tilbury E. twps.....	64,640.20	165.7	1,391.52	1,805.40	3,112.93
<b>Milton R.P.D.</b> —Esquesing, Nassagaweya, Nelson and Trafalgar twps.....	47,497.87	153.2	1,286.55	1,717.81	2,269.72
<b>Milverton R.P.D.</b> —Ellice, Elma, Mornington and Wellesley twps.....	22,505.29	71.9	603.80	566.02	1,095.65
<b>Mitchell R.P.D.</b> —Downie, Ellice, Elma, Fullarton, Hibbert, Logan and McKillop twps.....	55,308.74	179.1	1,504.05	1,423.46	2,688.79
<b>Newmarket R.P.D.</b> —Georgina, Gwillimbury E., King, Scott, Uxbridge and Whitechurch twps.....	69,756.20	222.1	1,865.16	2,061.82	3,386.61
<b>Niagara R.P.D.</b> —Niagara and Stamford twps.....	75,898.15	359.2	3,016.50	1,911.80	3,750.10
<b>Norwich R.P.D.</b> —Burford, Dereham, Middleton, Norwich N., Norwich S., Oxford E. and Windham twps.....	75,056.26	247.2	2,075.94	2,169.96	3,607.50



## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1934

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
444.53	612.61	8,228.79	705.00	7,523.79	7,523.79	see page	183
1,465.58	1,553.38	19,580.90	1,052.75	18,528.15	18,528.15	"	"
1,779.45	1,913.09	22,416.06	1,431.25	20,984.81	20,984.81	"	"
365.06	409.17	5,105.56	341.50	4,764.06	4,764.06	"	"
3,300.20	3,960.38	50,241.32	3,712.50	46,528.82	46,528.82	"	"
144.19	164.55	2,193.75	143.00	2,050.75	2,050.75	"	"
417.23	463.82	5,904.90	392.00	5,512.90	5,512.90	"	"
980.79	1,155.96	14,605.65	938.00	13,667.65	13,667.65	"	"
646.78	641.94	7,598.57	414.25	7,184.32	7,184.32	"	"
406.08	454.33	6,134.49	383.00	5,751.49	5,751.49	"	"
199.01	220.19	2,684.67	179.75	2,504.92	2,504.92	"	"
484.48	540.56	6,641.34	447.75	6,193.59	6,193.59	"	"
578.10	682.54	8,574.23	555.25	8,018.98	8,018.98	"	"
482.26	716.22	9,876.88	898.00	8,978.88	8,978.88	"	"
654.62	732.36	9,240.38	618.00	8,622.38	8,622.38	"	"

## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
<b>Oil Springs R.P.D.</b> —Brooke, Dawn, Enniskillen and Euphemia twps.....	15,419.73	41.7	350.19	504.47	738.17
<b>Palmerston R.P.D.</b> —Arthur, Maryborough, Minto, Peel, and Wallace twps.....	15,466.74	47.7	400.58	421.62	752.93
<b>Petrolia R.P.D.</b> —Enniskillen, Moore, Plympton and Sarnia twps.....	8,422.82	25.3	212.47	227.58	406.07
<b>Preston R.P.D.</b> —Dumfries N., Guelph, Puslinch, Waterloo and Woolwich twps.....	234,954.41	872.8	7,329.62	5,293.45	11,518.12
<b>Ridgetown R.P.D.</b> —Aldborough, Harwich, Howard, and Orford twps. and Rondeau Park.....	95,729.88	255.5	2,145.65	3,211.48	4,573.58
<b>St. Jacobs R.P.D.</b> —Peel, Waterloo, Wellesley and Woolwich twps.....	70,587.91	246.5	2,070.06	1,807.99	3,440.06
<b>St. Marys R.P.D.</b> —Blanshard, Downie, Fullarton, Nissouri E., Nissouri W. and Usborne twps.....	67,794.60	203.6	1,709.80	2,064.45	3,281.16
<b>St. Thomas R.P.D.</b> —Dunwich, Southwold, Westminster and Yarmouth twps.....	160,787.69	614.8	5,162.98	4,384.22	7,897.94
<b>Saltfleet R.P.D.</b> —Barton, Binbrook, Grimsby N., and Saltfleet twps.....	252,436.12	885.5	7,436.26	6,991.11	12,356.90
<b>Sandwich R.P.D.</b> —Anderdon, Colchester N., Maidstone, Sandwich E., Sandwich S. and Sandwich W. twps.....	255,023.01	874.4	7,343.06	5,614.13	12,366.25
<b>Sarnia R.P.D.</b> —Moore, Plympton and Sarnia twps.....	166,373.62	510.4	4,286.24	4,528.04	8,050.63
<b>Scarboro R.P.D.</b> —Pickering, Scarboro York N. twps....	105,031.85	334.2	2,806.55	2,141.11	5,120.87
<b>Seaforth R.P.D.</b> —Hibbert, Hullett, McKillop and Tuckersmith twps.....	16,489.87	52.3	439.21	444.15	802.29
<b>Simcoe R.P.D.</b> —Charlotteville, Townsend, Walpole, Windham and Woodhouse twps....	55,537.68	204.7	1,719.03	1,870.69	2,726.05
<b>Stamford R.P.D.</b> —Stamford and Thorold twps.....	38,228.70	170.8	1,434.35	705.22	1,899.54

SYSTEM

N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it  
reserve of the system and proportionately applied in reduction of such  
Municipality; and the amount remaining to be credited or  
supplied to it in the year ending October 31, 1934

costs and fixed charges		Total cost of power for year	Amount appropriat- ed from contingency reserve and pro- portionate- ly applied in reduc- tion of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
149.54	152.60	1,894.97	104.25	1,790.72	1,790.72	see page	183
140.08	151.73	1,866.94	119.25	1,747.69	1,747.69	"	"
76.71	82.77	1,005.60	63.25	942.35	942.35	see page	185
1,862.40	2,270.04	28,273.63	2,182.00	26,091.63	26,091.63	"	"
938.16	948.34	11,817.21	638.75	11,178.46	11,178.46	"	"
588.19	685.31	8,591.61	616.25	7,975.36	7,975.36	"	"
615.37	666.26	8,337.04	509.00	7,828.04	7,828.04	"	"
1,237.34	1,549.12	20,231.60	1,537.00	18,694.60	18,694.60	"	"
2,033.88	2,438.90	31,257.05	2,213.75	29,043.30	29,043.30	"	"
2,089.58	2,481.08	29,894.10	2,186.00	27,708.10	27,708.10	"	"
1,493.88	1,632.40	19,991.19	1,276.00	18,715.19	18,715.19	"	"
870.95	1,027.79	11,967.27	835.50	11,131.77	11,131.77	"	"
146.57	161.43	1,993.65	130.75	1,862.90	1,862.90	"	"
444.10	537.07	7,296.94	511.75	6,785.19	6,785.19	"	"
257.14	362.55	4,658.80	427.00	4,231.80	4,231.80	"	"



## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
<b>Stratford R.P.D.</b> —Downie, Easthope N., Easthope S. and Ellice twps.....	38,858.32	149.7	1,257.15	973.57	1,891.58
<b>Strathroy R.P.D.</b> —Adelaide, Caradoc, Ekfrid, Lobo, Metcalfe and Williams E. twps.....	31,957.13	97.2	816.27	1,115.21	1,547.16
<b>Streetsville R.P.D.</b> —Chingua-cousy, Esquesing, Toronto and Trafalgar twps.....	89,829.50	280.7	2,357.27	2,820.42	4,347.50
<b>Tavistock R.P.D.</b> —Easthope N., Easthope S., Ellice and Zorra E. twps.....	46,207.46	153.7	1,290.75	1,174.28	2,243.01
<b>Thamesville R.P.D.</b> —Camden, Chatham, Euphemia, Harwich, Howard, Orford and Zone twps.....	29,893.46	96.1	807.03	827.94	1,450.98
<b>Tilbury R. P. D.</b> —Dover, Mersea, Rochester, Romney, Tilbury E., Tilbury N. and Tilbury W. twps. ....	45,031.23	138.7	1,164.78	1,232.50	2,186.03
<b>Tillsonburg R.P.D.</b> —Bayham, Dereham, Dorchester S., Houghton, Malahide, Middleton, Norwich N., Norwich S. and Walsingham N. twps.....	95,192.56	303.5	2,548.74	2,830.01	4,574.40
<b>Wallaceburg R.P.D.</b> —Chatham, Dover and Sombra twps.....	56,757.99	173.5	1,457.03	1,707.40	2,719.15
<b>Walsingham R.P.D.</b> —Charlottetown, Houghton, Middleton, Walsingham N., Walsingham S. and Windham twps.....	71,104.95	169.9	1,426.79	1,806.49	3,417.75
<b>Walton R.P.D.</b> —Grey, Hullett, McKillop, Morris, Wawanosh E. and Wawanosh W. twps.....	34,403.32	83.1	697.86	1,116.50	1,645.23
<b>Waterdown R.P.D.</b> —Flamboro E., Flamboro W. and Nelson twps.....	220,105.29	763.6	6,412.57	5,691.34	10,849.46
<b>Waterford R.P.D.</b> —Townsend and Windham twps.....	51,980.08	188.8	1,585.51	1,241.72	2,553.92
<b>Watford R.P.D.</b> —Adelaide, Metcalfe and Warwick twps.....	7,841.42	19.3	162.08	244.84	376.55

## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1934

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
294.33	374.20	4,790.83	374.25	4,416.58	4,416.58	see page	185
292.55	312.95	4,084.14	243.00	3,841.14	3,841.14	"	"
812.23	880.32	11,217.74	701.75	10,515.99	10,515.99	"	"
396.88	450.65	5,555.57	384.25	5,171.32	5,171.32	"	"
261.14	292.32	3,639.41	240.25	3,399.16	3,399.16	"	"
405.21	441.78	5,430.30	346.75	5,083.55	5,083.55	"	"
849.36	931.21	11,733.72	758.75	10,974.97	10,974.97	see page	187
513.29	557.12	6,953.99	433.75	6,520.24	6,520.24	"	"
744.20	709.33	8,104.56	424.75	7,679.81	7,679.81	"	"
355.95	342.85	4,158.39	207.75	3,950.64	3,950.64	"	"
1,825.32	2,132.70	26,911.39	1,909.00	25,002.39	25,002.39	"	"
420.96	503.33	6,305.44	472.00	5,833.44	5,833.44	"	"
79.92	78.02	941.41	48.25	893.16	893.16	"	"

## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
Welland R.P.D.—Bertie, Crowland, Humberstone, Moulton, Pelham, Thorold, Wainfleet and Willoughby twps.....	253,948.81	1,047.3	8,795.04	7,384.96	12,446.80
Woodbridge R.P.D.—Albion, Chinguacousy, Etobicoke, King, Toronto, Toronto Gore, Vaughan and York N. twps...	163,815.95	544.0	4,568.42	4,787.06	7,901.91
Woodstock R.P.D.—Blandford, Bienheim, Burford, Oxford E., Oxford N., Oxford W., Zorra E. and Zorra W. twps...	139,274.20	508.1	4,266.93	3,785.87	6,789.63
Totals—Municipalities.....	144,384,757.46	583,895.5	4,903,450.24	3,006,310.04	7,106,450.75
Totals—Rural power districts	7,264,089.00	24,557.0	206,225.28	201,527.04	353,247.63
Totals—Companies.....	45,384,574.78	205,259.4	1,723,731.83	985,224.22	2,303,263.47
Totals—Local distribution systems.....	1,466,889.92	4,690.0	39,385.79	99,252.62	73,286.39
Non-operating capital.....	95,845.36				
Grand totals.....	198,596,156.52	818,401.9	6,872,793.14	4,292,313.92	9,836,248.24



SYSTEM

N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1934

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,879.46	2,428.98	32,935.24	2,618.25	30,316.99	30,316.99	see page	187
1,399.75	1,590.38	20,247.52	1,360.00	18,887.52	18,887.52	"	"
1,121.04	1,347.80	17,311.27	1,270.25	16,041.02	16,041.02	"	"
1,001,225.72	1,383,875.90	17,401,312.65	1,459,738.75	15,941,573.90	15,818,467.05	74,895.33	198,002.18
61,290.10	70,615.30	892,905.35	61,392.50	831,512.85	831,512.85		
290,079.03	453,846.28	5,756,144.83		5,756,144.83	4,419,025.94	*	1,337,118.89
15,541.73	10,013.80	237,480.33		237,480.33	225,902.11		*11,578.22
1,368,136.58	1,918,351.28	24,287,843.16	1,521,131.25	22,766,711.91	21,294,907.95	74,895.33	1,546,699.29

\*Written off to contingencies reserve.

## NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Acton R.P.D.—Erin, Esquesing and Nassagaweya twps.....	15,011.89	7,505.94	7,505.95	324.07
Ailsa Craig R.P.D.—Lobo, McGillivray and Williams E. twps.....	9,448.36	4,724.18	4,724.18	252.46
Alvinston R.P.D.—Brooke twp.....	5,607.16	2,803.58	2,803.58	302.38
Amherstburg R.P.D.—Anderdon, Colchester N., Colchester S. and Malden twps.....	144,443.93	72,136.46	72,307.47	18,795.07
Aylmer R.P.D.—Bayham, Dereham, Dorchester N., Dorchester S., Malahide and Yarmouth twps.....	*195,742.30	95,823.25	99,919.05	9,232.80
Ayr R.P.D.—Blenheim, Dumfries N. and Dumfries S. twps.....	*42,220.32	21,074.67	21,145.65	1,421.28
Baden R.P.D.—Blandford, Blenheim, Easthope N., Easthope S., Waterloo, Wellesley, Wilmot and Zorra E. twps.....	*174,106.27	86,685.83	87,420.44	11,021.15
Beamsville R.P.D.—Caistor, Clinton, Gainsborough, Grimsby N., Grimsby S., Louth, Pelham and Wainfleet twps.....	363,819.49	175,957.19	187,862.30	34,086.92
Belle River R.P.D.—Maidstone and Rochester twps.....	88,114.06	43,980.87	44,133.19	6,944.28
Blenheim R.P.D.—Raleigh and Harwich twps.....	*110,058.00	54,039.66	56,018.34	3,956.44
Bond Lake R.P.D.—King, Markham, Vaughan, Whitechurch and York N. twps.....	347,634.73	173,817.36	173,817.37	32,417.01
Bothwell R.P.D.—Aldborough, Ekfrid, Mosa, Orford and Zone twps.....	*60,517.82	29,816.21	30,701.61	5,240.55
Brampton R.P.D.—Chinguacousy and Toronto twps.....	80,911.92	40,455.96	40,455.96	4,232.96
Brant R.P.D.—Blenheim, Brantford, Burford, Dumfries S., Oakland and Onondaga twps.....	*234,105.21	115,915.46	118,189.75	14,069.94
Brigden R.P.D.—Moore and Sombra twps.....	54,837.33	27,418.66	27,418.67	1,879.10
Burford R.P.D.—Brantford, Burford, Oakland, Townsend and Windham twps.....	95,455.55	47,727.77	47,727.78	4,959.84
Caledonia R.P.D.—Ancaster, Barton, Binbrook, Caistor, Glanford, Grimsby S., Oneida, Onondaga and Seneca, twps.....	204,779.34	102,143.74	102,635.60	9,041.72
Chatham R.P.D.—Chatham, Dover, Harwich and Raleigh twps.....	256,523.39	127,960.52	128,562.87	13,478.85
Chippawa R.P.D.—Bertie, Crowland and Willoughby twps.....	59,842.87	29,918.56	29,924.31	2,467.70
Clinton R.P.D.—Goderich, Hay, Hullett, Stanley and Tuckersmith twps.....	127,506.42	62,742.35	64,764.07	5,086.80

Note—Items marked \* include portions of transmission lines aggregating \$41,747.77

## RURAL POWER DISTRICTS

## N.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1934

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
418.93	344.31	298.43	149.22	78.56	1,613.52	1,399.91	.....	213.61
171.63	249.07	215.88	107.94	56.83	1,053.81	893.88	.....	159.93
118.45	127.85	110.81	55.41	29.17	744.07	484.29	.....	259.78
5,367.61	3,308.15	2,863.92	1,431.96	754.83	32,521.54	33,555.28	1,033.74	.....
8,050.09	4,549.12	3,861.04	1,930.52	1,037.98	28,661.55	30,080.13	1,418.58	.....
1,416.40	965.60	835.51	417.76	220.32	5,276.87	4,458.04	.....	818.83
4,913.20	3,958.28	3,416.60	1,708.30	903.17	25,920.70	23,416.06	.....	2,504.64
16,870.30	8,529.89	7,155.20	3,577.60	1,946.29	72,166.20	73,445.40	1,279.20	.....
4,277.13	2,029.55	1,756.07	878.03	463.08	16,348.14	17,299.52	951.38	.....
4,095.28	2,549.64	2,170.33	1,085.16	581.75	14,438.60	16,955.26	2,516.66	.....
14,408.69	7,744.15	6,712.24	3,356.12	1,767.00	66,405.21	68,051.67	1,646.46	.....
2,773.96	1,336.90	1,141.04	570.53	305.04	11,368.02	11,751.73	383.71	.....
2,869.61	1,840.84	1,595.55	797.78	420.03	11,756.77	10,031.62	.....	1,725.15
7,856.53	5,357.21	4,597.88	2,298.93	1,222.37	35,402.86	32,174.61	.....	3,228.25
1,207.54	1,262.64	1,094.39	547.20	288.10	6,278.97	5,576.36	.....	702.61
3,071.86	2,170.01	1,880.86	940.43	495.13	13,518.13	13,611.58	93.45	.....
6,047.06	4,703.56	4,066.97	2,033.49	1,073.22	26,966.02	25,971.98	.....	994.04
11,229.34	5,847.59	5,063.38	2,531.69	1,334.25	39,485.10	39,956.30	471.20	.....
2,705.75	1,350.32	1,170.28	585.14	308.10	8,587.29	8,261.70	.....	325.59
4,586.34	2,963.78	2,530.58	1,265.30	676.25	17,109.05	15,457.66	.....	1,651.39

used for purposes of rural power districts.



## NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
<b>Delaware R.P.D.</b> —Caradoc, Delaware, Ekfrid, Lobo, London, Southwold and Westminster twps.....	*230,002.13	114,074.14	115,927.99	8,663.42
<b>Dorchester R.P.D.</b> —Dorchester N., Dorchester S., London, Nissouri E., Nissouri W., Oxford N., Westminster and Yarmouth twps.....	*205,917.07	101,957.90	103,959.17	9,974.77
<b>Dresden R.P.D.</b> —Camden, Chatham and Dawn twps.....	36,332.81	18,166.40	18,166.41	1,480.13
<b>Drumbo R.P.D.</b> —Blandford, Blenheim and Burford twps.....	*104,363.86	51,921.01	52,442.85	4,007.89
<b>Dundas R.P.D.</b> —Ancaster, Beverly, Flamboro E., Flamboro W., Glanford and Nelson twps.....	250,833.33	121,956.37	128,876.96	15,384.03
<b>Dunnville R.P.D.</b> —Canborough, Dunn, and Moulton twps.....	44,926.04	22,463.02	22,463.02	1,376.94
<b>Dutton R.P.D.</b> —Aldborough and Dunwich twps.....	74,789.84	37,394.92	37,394.92	4,909.02
<b>Elmira R.P.D.</b> —Peel, Pilkington and Woolwich twps.....	34,882.99	17,441.49	17,441.50	2,600.11
<b>Elora R.P.D.</b> —Garafraxa W., Nichol, Peel, and Pilkington twps.....	85,705.98	42,634.08	43,071.90	3,627.76
<b>Essex R.P.D.</b> —Colchester N., Gosfield N., Gosfield S., Maidstone, Mersea, Rochester and Sandwich S. twps.....	*140,534.63	69,333.34	71,201.29	6,428.02
<b>Exeter R.P.D.</b> —Biddulph, Bosanquet, Hay, Hibbert, Stephen, Tuckersmith and Usborne twps.....	*150,370.44	74,453.55	75,916.89	11,783.95
<b>Forest R.P.D.</b> —Adelaide, Bosanquet, Plympton, Warwick and Williams W. twps.....	*60,544.09	29,919.36	30,624.73	1,564.57
<b>Galt R.P.D.</b> —Beverly, Dumfries N., Dumfries S., and Puslinch twps.....	81,736.56	40,868.28	40,868.28	6,347.10
<b>Georgetown R.P.D.</b> —Chinguacousy, Erin and Esquesing twps.....	105,683.41	52,841.71	52,841.70	4,199.73
<b>Goderich R.P.D.</b> —Ashfield, Colborne, Goderich and Wawanosh W. twps.....	73,413.46	36,441.02	36,972.44	4,431.50
<b>Grantham R.P.D.</b> —Grantham and Niagara twps.....	148,979.19	70,409.59	78,569.60	18,605.21
<b>Guelph R.P.D.</b> —Eramosa, Guelph, Nassagaweya and Puslinch twps.....	186,153.77	93,050.44	93,103.33	12,624.88
<b>Haldimand R.P.D.</b> —Cayuga N., Oneida, Rainham, Seneca and Walpole twps.....	*110,221.99	53,479.52	56,742.47	6,903.89
<b>Harriston R.P.D.</b> —Howick and Minto twps.....	*32,795.60	16,117.64	16,677.96	771.66

Note—Items marked \* include portions of transmission lines aggregating \$41,747.77

RURAL POWER DISTRICTS

N.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1934

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,248.62	5,312.17	4,567.24	2,283.62	1,212.09	30,287.16	30,988.71	701.55	.....
8,123.99	4,774.52	4,098.29	2,049.15	1,089.41	30,110.13	30,334.87	224.74	.....
1,405.41	838.37	726.66	363.33	191.29	5,005.19	4,288.88	.....	716.31
3,958.21	2,391.91	2,062.76	1,031.38	545.76	13,997.91	12,112.01	.....	1,885.90
10,782.29	5,865.57	4,945.56	2,472.78	1,338.35	40,788.58	42,169.14	1,380.56	.....
1,516.23	993.22	860.87	430.44	226.63	5,404.33	3,407.99	.....	1,996.34
3,487.92	1,706.29	1,478.93	739.47	389.33	12,710.96	10,462.28	.....	2,248.68
1,782.66	804.64	697.42	348.71	183.60	6,417.14	5,426.95	.....	990.19
3,972.08	1,938.68	1,671.59	835.79	442.35	12,488.25	10,398.96	.....	2,089.29
4,856.73	3,273.76	2,800.18	1,400.09	746.98	19,505.76	21,419.70	1,913.94	.....
7,331.50	3,360.39	2,883.35	1,441.68	766.75	27,567.62	27,699.33	131.71	.....
1,322.66	1,397.71	1,197.38	598.68	318.92	6,399.92	6,825.29	425.37	.....
2,531.06	1,858.56	1,610.91	805.45	424.07	13,577.15	13,135.08	.....	442.07
3,483.34	2,422.61	2,099.80	1,049.90	552.77	13,808.15	12,300.13	.....	1,508.02
2,144.99	1,694.10	1,457.74	728.86	386.54	10,843.73	8,845.21	.....	1,998.52
9,746.72	3,599.32	2,956.51	1,478.25	821.26	37,207.27	34,556.03	.....	2,651.24
6,379.32	4,206.69	3,645.09	1,822.54	959.85	29,638.37	27,102.31	.....	2,536.06
5,234.47	2,442.11	2,051.47	1,025.73	557.22	18,214.89	15,174.84	.....	3,040.05
1,382.02	768.62	654.99	327.50	175.38	4,080.17	3,005.32	.....	1,074.85

used for purposes of rural power districts.

## NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Harrow R.P.D.—Colchester N., Colchester S., Gosfield S. and Malden twps.....	139,675.58	69,837.79	69,837.79	13,294.26
Ingersoll R.P.D.—Dereham, Dorchester N., Nissouri E., Oxford N., Oxford W., Zorra E. and Zorra W. twps.....	294,170.59	147,085.29	147,085.30	12,252.18
Jordan R.P.D.—Grantham, Louth, Pelham and Thorold twps.....	102,579.57	51,086.36	51,493.21	7,523.79
Keswick R.P.D.—Georgina, Gwillimbury E. and Gwillimbury N. twps.....	170,038.05	82,441.58	87,596.47	18,528.15
Kingsville R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps.....	*295,171.65	145,342.58	149,829.07	20,984.81
Listowel R.P.D.—Elma, Grey, Maryborough, Mornington, Peel, Wallace, and Wellesley twps.....	120,209.62	60,104.81	60,104.81	4,764.06
London R.P.D.—Delaware, Lobo, London, Nissouri W. and Westminster twps.....	*467,757.63	233,356.94	234,400.69	46,528.82
Lucan R.P.D.—Biddulph, London, McGillivray and Stephen twps.....	*58,270.70	28,978.95	29,291.75	2,050.75
Lynden R.P.D.—Ancaster, Beverly, Brantford and Dumfries S. twps.....	99,269.63	49,192.36	50,077.27	5,512.90
Markham R.P.D.—Markham, Pickering, Scarboro, Uxbridge and Whitchurch twps.....	*242,237.55	121,055.45	121,182.10	13,667.65
Merlin R.P.D.—Raleigh, Romney and Tilbury E. twps.....	143,625.53	71,812.77	71,812.76	7,184.32
Milton R.P.D.—Esquesing, Nassagaweya, Nelson and Trafalgar twps.....	115,990.97	57,995.48	57,995.49	5,751.49
Milverton R.P.D.—Ellice, Elma, Mornington and Wellesley twps.....	67,061.54	33,530.77	33,530.77	2,504.92
Mitchell R.P.D.—Downie, Ellice, Elma, Fullarton, Hibbert, Logan and McKillop twps.....	111,726.80	55,863.40	55,863.40	6,193.59
Newmarket R.P.D.—Georgina, Gwillimbury E., King, Scott, Uxbridge and Whitchurch twps.....	125,538.92	62,769.46	62,769.46	8,018.98
Niagara R.P.D.—Niagara and Stamford twps.....	*128,513.65	63,778.10	64,735.55	8,978.88
Norwich R.P.D.—Burford, Dereham, Middleton, Norwich N., Norwich S., Oxford E. and Windham twps.....	*187,116.40	91,473.14	95,643.26	8,622.38
Oil Springs R.P.D.—Brooke, Dawn, Enniskillen and Euphemia twps.....	29,722.94	14,861.47	14,861.47	1,790.72
Palmerston R.P.D.—Arthur, Maryborough, Minto, Peel and Wallace twps.....	*60,766.01	30,102.86	30,663.15	1,747.69

Note—Items marked \* include portions of transmission lines aggregating \$41,747.77



RURAL POWER DISTRICTS

N.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1934

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,560.55	3,110.08	2,695.66	1,347.83	709.63	26,718.01	29,849.15	3,131.14	.....
8,978.93	6,728.93	5,832.30	2,916.15	1,535.35	38,243.84	34,106.07	.....	4,137.77
6,150.23	2,349.21	2,028.04	1,014.02	536.02	19,601.31	17,366.17	.....	2,235.14
7,819.77	3,914.87	3,290.11	1,645.06	893.26	36,091.22	32,012.68	.....	4,078.54
13,666.73	6,831.42	5,831.39	2,915.70	1,558.74	51,788.79	53,088.10	1,299.31	.....
5,793.49	2,738.81	2,373.43	1,186.71	624.80	17,480.80	15,329.95	.....	2,150.85
22,336.24	10,590.31	9,158.28	4,579.14	2,416.41	95,609.20	94,787.04	.....	822.16
1,162.48	1,345.13	1,159.64	579.82	306.92	6,604.74	6,568.72	.....	36.02
3,744.74	2,280.24	1,958.70	979.35	520.28	14,996.21	13,211.12	.....	1,785.09
6,928.42	5,422.46	4,690.39	2,345.19	1,237.26	34,291.37	39,494.38	5,203.01	.....
4,030.73	3,301.89	2,861.91	1,430.95	753.40	19,563.20	18,001.69	.....	1,561.51
4,104.75	2,610.85	2,262.95	1,131.47	595.72	16,457.23	15,348.13	.....	1,109.10
3,344.83	1,529.49	1,325.69	662.84	348.99	9,716.76	7,857.18	.....	1,859.58
4,322.35	2,551.19	2,211.24	1,105.62	582.11	16,966.10	17,047.87	81.77	.....
4,922.97	2,834.52	2,456.82	1,228.41	646.75	20,108.45	19,948.70	.....	159.75
5,636.78	2,938.95	2,528.18	1,264.09	670.58	22,017.46	23,484.36	1,466.90	.....
7,207.63	4,317.62	3,658.88	1,829.44	985.16	26,621.11	25,524.06	.....	1,097.05
1,465.87	682.46	591.52	295.76	155.72	4,982.05	5,285.58	303.53	.....
2,102.01	1,405.30	1,206.83	603.41	320.65	7,385.89	5,144.96	.....	2,240.93

used for purposes of rural power districts.

## NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
<b>Petrolia</b> R.P.D.—Enniskillen, Moore, Plympton and Sarnia twps.....	*26,401.41	12,647.33	13,754.08	942.35
<b>Preston</b> R.P.D.—Dumfries N., Guelph, Puslinch, Waterloo and Woolwich twps....	*334,446.56	166,296.53	168,150.03	26,091.63
<b>Ridgetown</b> R.P.D.—Aldborough, Harwich, Howard, Orford twps. and Rondeau Park	203,958.15	101,979.07	101,979.08	11,178.46
<b>St. Jacobs</b> R.P.D.—Peel, Waterloo, Wellesley and Woolwich twps.....	109,398.27	54,413.41	54,984.86	7,975.36
<b>St. Marys</b> R.P.D.—Blanshard, Downie, Fullarton, Nissouri E., Nissouri W. and Usborne twps.....	197,928.35	98,964.18	98,964.17	7,828.04
<b>St. Thomas</b> R.P.D.—Dunwich, Southwold, Westminster and Yarmouth twps....	313,890.97	156,251.74	157,639.23	18,694.60
<b>Saltfleet</b> R.P.D.—Barton, Binbrook, Grimsby N. and Saltfleet twps.....	301,581.29	147,951.15	153,630.14	29,043.30
<b>Sandwich</b> R.P.D.—Anderdon, Colchester N., Maidstone, Sandwich E., Sandwich S. and Sandwich W. twps.....	343,062.05	171,531.02	171,531.03	27,708.10
<b>Sarnia</b> R.P.D.—Moore, Plympton and Sarnia twps.....	*218,050.07	106,815.83	111,234.24	18,715.19
<b>Scarboro</b> R.P.D.—Pickering, Scarboro and York N. twps.....	209,266.83	104,633.41	104,633.42	11,131.77
<b>Seaforth</b> R.P.D.—Hibbert, Hullett, McKillop and Tuckersmith twps.....	29,638.93	14,201.52	15,437.41	1,862.90
<b>Simcoe</b> R.P.D.—Charlotteville, Townsend, Walpole, Windham and Woodhouse twps....	136,303.27	67,981.35	68,321.92	6,785.19
<b>Stamford</b> R.P.D.—Stamford and Thorold twps.....	41,163.48	20,581.74	20,581.74	4,231.80
<b>Stratford</b> R.P.D.—Downie, Easthope N., Easthope S. and Ellice twps.....	67,426.12	33,452.21	33,973.91	4,416.58
<b>Strathroy</b> R.P.D.—Adelaide, Caradoc, Ekfrid, Lobo, Metcalfe and Williams E. twps....	102,422.32	51,034.39	51,387.93	3,841.14
<b>Streetsville</b> R.P.D.—Chinguacousy, Esquesing, Toronto and Trafalgar twps.....	191,487.67	95,743.84	95,743.83	10,515.99
<b>Tavistock</b> R.P.D.—Easthope N., Easthope S., Ellice and Zorra E. twps.....	123,407.91	61,703.96	61,703.95	5,171.32
<b>Thamesville</b> R.P.D.—Camden, Chatham, Euphemia, Harwich, Howard, Orford and Zone twps.....	107,673.21	53,585.12	54,088.09	3,399.16
<b>Tilbury</b> R.P.D.—Dover, Mersea, Rochester, Romney, Tilbury E., Tilbury N. and Tilbury W. twps.....	*111,273.18	54,918.62	56,354.56	5,083.55

Note—Items marked \* include portions of transmission lines aggregating \$41,747.77

## RURAL POWER DISTRICTS

## N.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1934

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,157.51	627.19	521.48	260.74	143.10	3,652.37	3,560.08		92.29
11,047.68	7,581.23	6,538.02	3,269.01	1,729.83	56,257.40	54,265.86		1,991.54
7,488.47	4,662.15	4,040.92	2,020.46	1,063.77	30,454.23	29,422.92		1,031.31
5,486.67	2,510.18	2,164.27	1,082.14	572.76	19,791.38	17,515.13		2,276.25
4,788.46	4,474.01	3,877.85	1,938.92	1,020.84	23,928.12	21,157.77		2,770.35
12,402.80	7,140.64	6,161.40	3,080.69	1,629.29	49,109.42	47,945.39		1,164.03
15,850.12	6,852.67	5,825.97	2,912.99	1,563.60	62,048.65	67,306.56	5,257.91	
22,348.90	7,821.72	6,779.47	3,389.73	1,784.70	69,832.62	69,516.51		316.11
12,993.23	5,040.53	4,280.52	2,140.26	1,150.11	44,319.84	46,827.57	2,507.73	
5,281.69	4,550.19	3,943.87	1,971.93	1,038.23	27,917.68	35,354.55	7,436.87	
1,659.86	707.51	588.51	294.26	161.43	5,274.47	4,867.54		406.93
3,993.01	3,058.86	2,644.44	1,322.23	697.95	18,501.68	18,753.48	251.80	
4,268.91	913.97	792.18	396.09	208.54	10,811.49	11,003.67	192.18	
4,653.64	1,552.03	1,334.79	667.40	354.13	12,978.57	11,442.63		1,535.94
2,432.97	2,360.14	2,038.57	1,019.29	538.51	12,230.62	11,883.95		346.67
6,126.36	4,354.95	3,774.65	1,887.32	993.68	27,652.95	25,823.28		1,829.67
4,275.91	2,807.26	2,433.19	1,216.60	640.54	16,544.82	15,466.39		1,078.43
4,033.02	2,487.01	2,145.56	1,072.78	567.47	13,705.00	13,293.97		411.03
3,074.44	2,591.00	2,217.98	1,108.99	591.19	14,667.15	15,360.03	692.88	

used for purposes of rural power districts.



## NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
<b>Tillsonburg R.P.D.</b> —Bayham, Dereham, Dorchester S., Houghton, Malahide, Middleton, Norwich N., Norwich S. and Walsingham N. twps.....	206,565.46	103,282.73	103,282.73	10,974.97
<b>Wallaceburg R.P.D.</b> —Chatham, Dover and Sombra twps.....	156,756.85	77,994.45	78,762.40	6,520.24
<b>Walsingham R.P.D.</b> —Charlotteville, Houghton, Middleton, Walsingham N., Walsingham S. and Windham twps.....	*185,102.11	92,145.18	92,956.93	7,679.81
<b>Walton R.P.D.</b> —Grey, Hullett, McKillop, Morris, Wawanosh E. and Wawanosh W. twps.....	*80,234.66	38,464.08	41,770.58	3,950.64
<b>Waterdown R.P.D.</b> —Flamboro E., Flamboro W. and Nelson twps.....	215,555.41	97,424.55	118,130.86	25,002.39
<b>Waterford R.P.D.</b> —Townsend and Windham twps.....	120,424.80	60,212.40	60,212.40	5,833.44
<b>Watford R.P.D.</b> —Adelaide, Metcalfe and Warwick twps.....	23,940.99	11,970.50	11,970.49	893.16
<b>Welland R.P.D.</b> —Bertie, Crowland, Humberstone, Moulton, Pelham, Thorold, Wainfleet and Willoughby twps.....	676,713.61	334,123.41	342,590.20	30,316.99
<b>Woodbridge R.P.D.</b> —Albion, Chingacousy, Etobicoke, King, Toronto, Toronto Gore, Vaughan and York N. twps.....	*353,487.85	175,760.31	177,727.54	18,887.52
<b>Woodstock R.P.D.</b> —Blandford, Blenheim, Burford, Oxford E., Oxford N., Oxford W., Zorra E. and Zorra W. twps.....	232,334.77	116,167.39	116,167.38	16,041.02
Total capital.....	13,208,213.43	6,540,472.98	6,667,740.45	
Non-operating capital.....	23,662.95	11,831.49	11,831.46	
Grand totals.....	13,231,876.38	6,552,304.47	6,679,571.91	831,512.85

Note—Items marked \* include portions of transmission lines aggregating \$41,747.77

RURAL POWER DISTRICTS

N.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1934

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,563.14	4,708.36	4,080.97	2,040.49	1,074.32	30,442.25	28,271.87	.....	2,170.38
5,585.28	3,591.06	3,097.19	1,548.60	819.38	21,161.75	21,727.07	565.32	.....
4,645.86	3,855.76	3,325.73	1,662.87	879.78	22,049.81	22,009.76	.....	40.05
3,955.06	1,924.59	1,602.01	801.00	439.14	12,672.44	12,169.88	.....	502.56
13,672.43	5,268.53	4,152.37	2,076.18	1,202.14	51,374.04	49,100.61	.....	2,273.43
3,170.01	2,731.65	2,367.66	1,183.83	623.29	15,909.88	16,521.22	611.34	.....
788.56	551.41	477.93	238.96	125.82	3,075.84	3,116.83	40.99	.....
26,227.87	15,552.36	13,313.12	6,656.56	3,548.61	95,615.51	92,721.70	.....	2,893.81
12,387.75	7,887.62	6,797.70	3,398.85	1,799.73	51,159.17	51,723.27	564.10	.....
8,750.04	5,289.02	4,584.26	2,292.13	1,206.81	38,163.28	36,314.12	.....	1,849.16
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
529,535.07	301,774.53	259,028.24	129,514.12	68,856.46	2,120,221.27	2,080,385.53	44,179.03	84,014.77

used for purposes of rural power districts.

## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1934, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1933		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Acton.....	Jan., 1913		13.13	13.13	
Agincourt.....	Nov., 1922	236.09			236.09
Ailsa Craig.....	Jan., 1916		200.65	200.65	
Alvinston.....	April, 1922	329.81			329.81
Amherstburg.....	Nov., 1925	1,826.33			1,826.33
Ancaster twp.....	May, 1923		357.95	357.95	
Arkona.....	Dec., 1926		13.98	14.36	0.38
Aylmer.....	Mar., 1918	13.39			13.39
Ayr.....	Jan., 1915	60.09			60.09
Baden.....	May, 1912		161.80	161.80	
Beachville.....	Aug., 1912	471.04			471.04
Belle River.....	Dec., 1922		157.74	157.74	
Blenheim.....	Nov., 1915	255.45		4.33	259.78
Blyth.....	July, 1924	402.98			402.98
Bolton.....	Feb., 1915	539.36			539.36
Bothwell.....	Sept., 1915		147.24	147.24	
Brampton.....	Nov., 1911		1,839.46	1,839.46	
Brantford.....	Feb., 1914		4,475.92	4,475.92	
Brantford twp.....	May, 1924		737.99	737.99	
Bridgeport.....	Mar., 1928		20.80	20.80	
Brigden.....	Jan., 1918	365.43			365.43
Brussels.....	July, 1924	408.95			408.95
Burford.....	June, 1915	194.68			194.68
Burgessville.....	Nov., 1916		220.22	220.22	
Caledonia.....	Oct., 1912		656.40	656.40	
Campbellville.....	Jan., 1925		33.14	33.14	
Cayuga.....	Nov., 1924		421.67	421.67	
Chatham.....	Feb., 1915		423.00	423.00	
Chippawa.....	Sept., 1919		32.01	41.83	9.82
Clifford.....	May, 1924		369.13	369.13	
Clinton.....	Mar., 1914		488.15	488.15	
Comber.....	May, 1915	286.25			286.25
Cottam.....	Nov., 1926	73.70			73.70
Courtright.....	Dec., 1923		251.67	251.67	
Dashwood.....	Sept., 1917		85.10	85.10	
Delaware.....	Mar., 1915	5.87			5.87
Dorchester.....	Dec., 1914		234.40	234.40	
Drayton.....	Mar., 1918		379.90	379.90	
Dresden.....	April, 1915	347.66			347.66
Drumbo.....	Dec., 1914	267.07			267.07
Dublin.....	Oct., 1917		408.48		
Dundas.....	Jan., 1911		1,495.92	1,495.92	
Dunnville.....	June, 1918	3,520.34			3,520.34
Dutton.....	Sept., 1915	354.72			354.72
East Windsor.....	Nov., 1922		1,012.44	1,012.44	



SYSTEM

N.—CREDIT OR CHARGE

supplied to it to October 31, 1933, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1934

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1934		Accumulated amount standing as a credit or charge on October 31, 1934	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7.06	0.36	1,008.80		1,008.44	
	7.89	144.84		151.90	
8.75			148.69		156.58
49.53			192.05		183.30
		1,284.84		1,334.37	
	9.73	127.96		118.23	
	0.38		129.71		130.09
0.40		541.79		542.19	
1.82		65.93		67.75	
	4.77	318.11		313.34	
16.33		211.35		227.68	
	5.19	163.33		158.14	
4.99		308.70		313.69	
11.92		293.47		305.39	
15.07		52.47		67.54	
	4.08	57.79		53.71	
	49.99	1,996.61		1,946.62	
	84.37		6,090.77		6,175.14
	22.00	265.55		243.55	
	0.61		120.47		121.08
			12.09		4.80
7.29				468.67	
11.70		456.97		355.72	
5.10		350.62			206.90
	6.11		200.79		
	19.06	208.28		189.22	
	0.91		111.96		112.87
	14.23		354.61		368.84
	11.54	1,644.61		1,633.07	
	0.49		175.78		176.27
	10.23	215.38		205.15	
	14.71	182.12		167.41	
		323.91		332.22	
8.31			132.26		130.10
2.16				160.36	
	10.07	170.43		2.08	
	2.84	4.92			
			127.37		127.16
0.21			161.18		168.53
	7.35			210.73	
	10.28	221.01		903.01	
7.14		895.87			8.29
8.46			16.75		
			219.72		644.54
	16.34			565.30	
	40.49	605.79		1,074.19	
62.60		1,011.59		342.76	
10.57		332.19			540.14
	27.85		512.29		

## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1934, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1933		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Elmira.....	Nov., 1913		533.43	533.43	
Elora.....	Nov., 1914		506.83	516.81	9.98
Embro.....	Jan., 1915	362.25			362.25
Erieau.....	July, 1924	263.59			263.59
Erie Beach.....	July, 1925	78.13			78.13
Essex.....	Nov., 1923		31.15	31.15	
Etobicoke.....	Aug., 1917	2,863.51			2,863.51
Exeter.....	June, 1916		179.36	179.36	
Fergus.....	Nov., 1914		885.10	885.10	
Fonthill.....	June, 1926	319.23		2.32	321.55
Forest.....	Mar., 1917	876.05			876.05
Galt.....	May, 1911	624.46			624.46
Georgetown.....	Sept., 1913		811.96	811.96	
Glencoe.....	Aug., 1920	280.53			280.53
Goderich.....	Feb., 1914		1,434.08	1,434.08	
Granton.....	July, 1916		211.82	211.82	
Guelph.....	Dec., 1910		2,704.44	2,704.44	
Hagersville.....	Sept., 1913		1,960.06	1,960.06	
Hamilton.....	Feb., 1911		82,617.86	119,980.90	37,363.04
Harriston.....	July, 1916		619.44	619.44	
Harrow.....	Nov., 1923	133.21			133.21
Hensall.....	Jan., 1917		161.73	161.73	
Hespeler.....	Feb., 1911	2,911.93			2,911.93
Highgate.....	Dec., 1916	132.78		2.01	134.79
Humberstone.....	Oct., 1924		169.07	169.07	
Ingersoll.....	May, 1911		3,756.16		
Jarvis.....	Feb., 1924		988.06	988.06	
Kingsville.....	Nov., 1923	92.84			92.84
Kitchener.....	Jan., 1911		5,467.11	5,493.50	26.39
Lambeth.....	April, 1915	161.78			161.78
La Salle.....	Nov., 1925	108.47			108.47
Leamington.....	Nov., 1923		331.10	331.10	
Listowel.....	June, 1916		690.30	690.30	
London.....	Jan., 1911		6,797.96	6,797.96	
London Railway Commission.	Aug., 1914		8,647.14	8,333.61	
London twp.....	Jan., 1925	292.41			292.41
Long Branch.....	Jan., 1931	613.34			613.34
Lucan.....	Feb., 1915		83.25	85.69	2.44
Lynden.....	Nov., 1915	155.28			155.28
Markham.....	April, 1920	558.88			558.88
Merlin.....	Dec., 1922		104.00	104.00	
Merritton.....	Nov., 1920		728.19	728.19	
Milton.....	April, 1913		1,109.85	1,109.85	
Milverton.....	June, 1916		251.76	251.76	
Mimico.....	May, 1912		178.62	178.62	

## SYSTEM

## N.—CREDIT OR CHARGE

supplied to it to October 31, 1933, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1934

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1934		Accumulated amount standing as a credit or charge on October 31, 1934	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	15.78		229.17		244.95
	9.65		530.02		539.67
10.88		520.86		531.74	
4.44		240.75		245.19	
2.37			52.71		50.34
	0.94	159.13		158.19	
77.82		1,100.45		1,178.27	
	5.35		357.05		362.40
	26.67		118.88		145.55
10.93		465.53		476.46	
		472.92		496.44	
23.52			6,444.75		6,434.28
10.47					
	22.51	1,873.68		1,851.17	
7.38		201.77		209.15	
	41.33	311.84		270.51	
	6.55		215.38		221.93
	53.94	2,213.62		2,159.68	
	53.91	269.31		215.40	
1,011.36	2,668.56		53,751.93		55,409.13
	19.55	677.45		657.90	
3.63		327.30		330.93	
	4.75		30.44		35.19
67.34		593.82		661.16	
2.90		140.29		143.19	
	5.32	134.78		129.46	
	150.25		2,050.21		5,956.62
	29.02		391.72		420.74
2.71			232.29		229.58
	164.68		2,949.44		3,114.12
5.71		63.01		68.72	
3.27			352.26		348.99
	9.03		1,141.43		1,150.51
	19.59	1,074.20		1,054.61	
	188.48		23,562.06		23,750.54
	328.53		6,855.79		7,497.85
		34.74		42.62	
7.88		702.97		719.64	
16.67			134.90		136.49
	1.59				
		217.05		222.58	
5.53		346.19		359.29	
13.10					
	3.23	97.92		94.69	
	20.43		2,574.69		2,595.12
	30.29		113.82		144.11
	9.63	196.82		187.19	
	6.58		612.17		618.75



## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1934, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1933		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Mitchell.....	Sept., 1911		179.63	179.63	
Moorefield.....	Mar., 1918		171.44	171.44	
Mount Brydges.....	Mar., 1915	116.29			116.29
Newbury.....	Mar., 1921	48.58			48.58
New Hamburg.....	Mar., 1911	447.67			447.67
New Toronto.....	Feb., 1914	5,935.12			5,935.12
Niagara Falls.....	Dec., 1915		49,899.39	31,494.65	
Niagara-on-the-Lake.....	Aug., 1919		65.87	65.87	
Norwich.....	May, 1912		223.63	223.63	
Oil Springs.....	Feb., 1918	584.75			584.75
Otterville.....	Feb., 1916		173.17	173.17	
Palmerston.....	July, 1916		334.69	334.69	
Paris.....	Feb., 1914		509.23	509.23	
Parkhill.....	May, 1920	98.32			98.32
Petrolia.....	May, 1916	2,343.97			2,343.97
Plattsville.....	Dec., 1914	271.58			271.58
Point Edward.....	Nov., 1916	1,666.03			1,666.03
Port Colborne.....	Mar., 1920	1,255.29			1,255.29
Port Credit.....	Aug., 1912		831.37	831.37	
Port Dalhousie.....	Nov., 1912		187.03	187.03	
Port Dover.....	Dec., 1921	1,279.15			1,279.15
Port Rowan.....	Nov., 1926	302.22			302.22
Port Stanley.....	April, 1912	1,057.22			1,057.22
Preston.....	Jan., 1911		1,224.13	1,224.13	
Princeton.....	Jan., 1915	536.65			536.65
Queenston.....	Mar., 1921	90.68			90.68
Richmond Hill.....	June, 1925	1,755.00			1,755.00
Ridgetown.....	Dec., 1915	35.71			35.71
Riverside.....	Nov., 1922		684.83	684.83	
Rockwood.....	Sept., 1913	111.11			111.11
Rodney.....	Feb., 1917		394.84	394.84	
St. Catharines.....	April, 1914		5,286.31	5,286.31	
St. Clair Beach.....	Nov., 1922		105.30	105.30	
St. George.....	Sept., 1915	216.04			216.04
St. Jacobs.....	Sept., 1917		392.27	392.27	
St. Marys.....	May, 1911		2,056.97	2,056.97	
St. Thomas.....	April, 1911	1,821.24			1,821.24
Sandwich.....	Feb., 1924	1,050.70			1,050.70
Sarnia.....	Dec., 1916	11,211.35			11,211.35
Scarboro twp.....	Aug., 1918	4,134.29			4,134.29
Seaforth.....	Nov., 1911		312.63	312.63	
Simcoe.....	Aug., 1915	2,237.43			2,237.43
Springfield.....	Aug., 1917		65.49	65.49	
Stamford twp.....	Nov., 1916		1,485.15	1,485.15	
Stouffville.....	Sept., 1923	268.79			268.79

## SYSTEM

## N.—CREDIT OR CHARGE

supplied to it to October 31, 1933, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1934

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1934		Accumulated amount standing as a credit or charge on October 31, 1934	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	5.35		555.72		561.07
	5.34	56.05		50.71	
3.50		72.30		75.80	
1.41		97.29		98.70	
12.02		414.56		426.58	
119.09		6,485.06		6,604.15	
	736.19		21,320.74		40,461.67
	1.96	779.56		777.60	
	6.15		363.85		370.00
11.34		196.98		208.32	
	4.84		152.47		157.31
	10.78	901.64		890.86	
	14.01		551.44		565.45
3.50			248.51		245.01
63.19		1,869.81		1,933.00	
7.27		51.48		58.75	
27.57		1,950.17		1,977.74	
25.17		908.99		934.16	
	23.78	538.97		515.19	
	6.62	164.56		157.94	
39.41		831.93		871.34	
6.03		201.23		207.31	
34.87		1,197.54		1,232.41	
	36.22		1,693.77		1,729.99
11.22		215.50		226.72	
2.12		83.09		85.21	
64.47		255.90		320.37	
0.99		20.33		21.32	
	18.84	663.99		645.15	
2.99		230.99		233.98	
	10.34		547.39		557.73
	123.50		6,192.78		6,316.28
	2.90	88.39		85.49	
4.64		515.73		520.37	
	11.18		109.29		120.47
	61.99	1,071.06		1,009.07	
48.30			2,279.12		2,230.82
31.32			959.15		927.83
185.53		8,552.94		8,738.47	
112.81		2,569.26		2,682.07	
	7.47	137.18		129.71	
43.89		1,904.10		1,947.99	
	1.77		233.72		235.49
	28.32		1,848.78		1,877.10
7.13			18.11		10.98

## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1934, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1933		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Stratford.....	Jan., 1911	3,133.08			3,133.08
Strathroy.....	Dec., 1914	2,187.65			2,187.65
Sutton.....	Aug., 1923	524.95			524.95
Tavistock.....	Nov., 1916	658.13			658.13
Tecumseh.....	Nov., 1922		109.48	109.48	
Thamesford.....	Feb., 1914		69.73	69.73	
Thamesville.....	Oct., 1915	354.24			354.24
Thedford.....	May, 1922	498.03			498.03
Thorndale.....	Mar., 1914	59.66			59.66
Thorold.....	Jan., 1921	47.87			47.87
Tilbury.....	April, 1915		136.59	136.59	
Tillsonburg.....	Aug., 1911	45.88			45.88
Toronto.....	June, 1911		117,913.39	118,851.10	937.71
Toronto twp.....	Aug., 1913	1,496.95			1,496.95
Walkerville.....	Nov., 1914		4,835.51	4,835.51	
Wallaceburg.....	Feb., 1915		701.54	701.54	
Wardsville.....	June, 1921	39.40		3.77	43.17
Waterdown.....	Nov., 1911	137.64			137.64
Waterford.....	April, 1915	494.84			494.84
Waterloo.....	Dec., 1910		14,148.87	14,203.87	
Watford.....	Sept., 1917	1,047.77			1,047.77
Welland.....	Sept., 1917		684.45	684.45	
Wellesley.....	Nov., 1916	46.44			46.44
West Lorne.....	Jan., 1917	51.54			51.54
Weston.....	Jan., 1911	1,698.00			1,698.00
Wheatley.....	Feb., 1924		209.80	209.80	
Windsor.....	Oct., 1914		7,469.05	7,469.05	
Woodbridge.....	Dec., 1914	478.90			478.90
Woodstock.....	Jan., 1911		4,584.88	4,584.88	
Wyoming.....	Nov., 1916	264.14			264.14
York East twp.....	July, 1925	2,396.63			2,396.63
York North twp.....	Nov., 1923	1,229.81		14.85	1,244.66
Zurich.....	Sept., 1917		119.38	119.38	
Toronto Transportation Commission.....	Jan., 1927	389.70			389.70
Totals municipalities.....		76,944.31	352,164.16	367,713.29	115,321.35
RURAL POWER DISTRICTS*					
Acton R.P.D.....	Feb., 1928		714.71	743.30	
Ailsa Craig R.P.D.....	Sept., 1930		30.58	31.80	
Alvinston R.P.D.....	June, 1929		626.42	302.68	
Amherstburg R.P.D.....	Nov., 1923	31,766.35		340.38	370.97
Aylmer R.P.D.....	Nov., 1922	14,460.63		65.45	65.45

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.



## SYSTEM

## N.—CREDIT OR CHARGE

supplied to it to October 31, 1933, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1934

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1934		Accumulated amount standing as a credit or charge on October 31, 1934	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
51.16		3,520.51		3,571.67	
47.83		1,499.36		1,547.19	
10.56		391.29		401.85	
18.82		1,280.89		1,299.71	
	3.01	410.37		407.36	
	2.03	464.13		462.10	
9.39		477.91		487.30	
13.94		148.56		162.50	
2.12			81.82		79.70
1.27			911.97		910.70
	3.82	179.78		175.96	
1.07			1,194.50		1,193.43
	3,525.35		8,283.13		11,808.48
30.53		1,843.47		1,874.00	
	133.01		9,265.52		9,398.53
	20.91	1,273.96		1,253.05	
1.04		9.70		10.74	
2.85		154.01		156.86	
14.21		415.26		429.47	
	209.70		3,142.98		3,297.68
32.62		870.63		903.25	
	22.88		1,358.02		1,380.90
1.21		26.59		27.80	
1.11			315.00		313.89
38.33			54.90		16.57
	5.89		106.98		112.87
	207.09		20,987.66		21,194.75
14.38		275.55		289.93	
	130.64		2,838.11		2,968.75
7.90		74.52		82.42	
32.30		1,652.82		1,685.12	
20.30			979.10		958.80
	3.47	26.31		22.84	
11.62		971.45		983.07	
2,761.66	9,663.36	74,895.33	198,002.18	75,827.28	228,663.74
	28.59		213.61		213.61
	1.22		159.93		159.93
	25.06		259.78		608.58
1,269.72		1,033.74		34,039.22	
578.43		1,418.58		16,457.64	

## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1934, and the accumulated amount standing

Rural power district*	Date commenced operating	Net credit or charge at October 31, 1933		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Ayr R.P.D.	July, 1926		308.58	320.92	
Baden R.P.D.	Sept., 1922		6,230.65	6,479.88	
Beamsville R.P.D.	Jan., 1923	44,918.13		64.57	64.57
Belle River R.P.D.	Dec., 1922	33,776.42		46.90	47.30
Blenheim R.P.D.	July, 1924	18,787.27			
Bond Lake R.P.D.	Mar., 1924	53,817.20		15.79	22.68
Bothwell R.P.D.	Dec., 1923	6,459.85		170.14	1,686.53
Brampton R.P.D.	Nov., 1923		622.76	647.67	28.21
Brant R.P.D.	Oct., 1922		9,977.18	10,429.73	53.46
Brigden R.P.D.	Jan., 1927		4,607.34	2,760.10	
Burford R.P.D.	Dec., 1926	2,037.82		16.65	55.11
Caledonia R.P.D.	Oct., 1925		6,695.74	7,817.49	853.92
Chatham R.P.D.	May, 1922	18,258.59		29.35	41.94
Chippawa R.P.D.	July, 1922	3,288.62			
Clinton R.P.D.	July, 1928		3,509.76	3,722.15	121.86
Delaware R.P.D.	Oct., 1922	2,834.44		8.09	70.58
Dorchester R.P.D.	Dec., 1921		1,933.28	2,079.54	71.45
Dresden R.P.D.	May, 1928		564.79	587.38	
Drumbo R.P.D.	Aug., 1922	128.97		52.40	52.40
Dundas R.P.D.	Jan., 1922	20,644.73		4.76	4.76
Dunnville R.P.D.	July, 1928		5,149.99	4,025.22	80.76
Dutton R.P.D.	Feb., 1926		3,446.25	3,584.10	
Elmira R.P.D.	June, 1926		3,453.96	2,461.47	
Elora R.P.D.	Jan., 1926		3,778.85	3,930.01	
Essex R.P.D.	Nov., 1924	21,325.92		19.92	19.92
Exeter R.P.D.	Nov., 1922	12,352.37		17.05	17.05
Forest R.P.D.	Nov., 1926		368.28	434.33	51.32
Galt R.P.D.	Oct., 1922	2,261.88			1.22
Georgetown R.P.D.	Nov., 1924	698.86		179.32	179.32
Goderich R.P.D.	June, 1925		3,728.05	1,588.98	7.80
Grantham R.P.D.	Nov., 1924	451.26		95.00	146.65
Guelph R.P.D.	Jan., 1925		10,660.74	7,407.54	149.64
Haldimand R.P.D.	Oct., 1925		361.20	575.53	865.51
Harriston R.P.D.	Dec., 1929		2,312.89	1,671.28	57.05
Harrow R.P.D.	Nov., 1923	19,683.08		8.88	8.88
Ingersoll R.P.D.	Oct., 1922		6,675.86	6,943.93	
Jordan R.P.D.	May, 1922	12,385.29		33.88	38.08
Keswick R.P.D.	Mar., 1924		9,507.31	38.64	46.74
Kingsville R.P.D.	Nov., 1923	39,242.14		38.38	132.54
Listowel R.P.D.	Oct., 1926		2,126.12	2,211.17	
London R.P.D.	Nov., 1922	17,457.43		45.54	43.41
Lucan R.P.D.	June, 1926		352.58	366.68	
Lynden R.P.D.	Feb., 1922		2,395.89	2,715.80	224.07

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## SYSTEM

## N.—CREDIT OR CHARGE

supplied to it to October 31, 1933, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1934

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1934		Accumulated amount standing as a credit or charge on October 31, 1934	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	12.34		818.83		818.83
	249.23		2,504.64		2,504.64
1,796.73		1,279.20		47,994.06	
1,351.05		951.38		36,078.45	
751.49		2,516.66		22,055.42	
2,152.47		1,646.46		57,609.24	
230.66		383.71		5,557.83	
	25.47		1,725.15		1,753.92
	399.09		3,228.25		3,228.25
	184.29		702.61		2,734.14
80.23		93.45		2,173.04	
	267.83		994.04		994.04
730.01		471.20		19,447.21	
131.54			325.59	3,094.57	
	141.44		1,651.39		1,702.30
113.38		701.55		3,586.88	
	77.41	224.74		222.14	
	22.59		716.31		716.31
5.16			1,885.90		1,751.77
825.79		1,380.56		22,851.08	
	206.00		1,996.34		3,407.87
	137.85		2,248.68		2,248.68
	138.16		990.19		2,120.84
	151.16		2,089.29		2,089.29
853.04		1,913.94		24,092.90	
494.09		131.71		12,978.17	
	14.73	425.37		425.37	
90.45			442.07	1,909.04	
27.95			1,508.02		781.21
	149.20		1,998.52		4,294.59
16.31			2,651.24		2,235.32
	424.32		2,536.06		6,363.22
	32.37		3,040.05		3,723.60
	92.69		1,074.85		1,866.20
787.32		3,131.14		23,601.54	
	267.03		4,137.77		4,136.73
495.28			2,235.14	10,641.23	
	380.49		4,078.54		13,974.44
1,569.28		1,299.31		42,016.57	
	85.05		2,150.85		2,150.85
698.09			822.16	17,335.49	
	14.10		36.02		36.02
	95.84		1,785.09		1,785.09



## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1934, and the accumulated amount standing

Rural power district*	Date commenced operating	Net credit or charge at October 31, 1933		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Markham R.P.D.....	Dec., 1922	32,398.23			
Merlin R.P.D.....	Nov., 1928		5,418.05	5,634.77	
Milton R.P.D.....	Jan., 1925	4,842.06			
Milverton R.P.D.....	Aug., 1927		5,628.93	3,478.34	3.54
Mitchell R.P.D.....	Dec., 1925	1,986.41			6.35
Newmarket R.P.D.....	Mar., 1924	6,843.32		1.43	2.15
Niagara R.P.D.....	Jan., 1922	19,942.28			
Norwich R.P.D.....	May, 1925	5,675.39		53.14	69.00
Oil Springs R.P.D.....	Dec., 1925	2,871.43			
Palmerston R.P.D.....	Oct., 1926		6,208.19	4,581.51	12.15
Petrolia R.P.D.....	Aug., 1923		625.54	650.56	
Preston R.P.D.....	April, 1922	7,640.74		36.75	36.75
Ridgetown R.P.D.....	Mar., 1922	1,547.39		98.90	157.88
St. Jacobs R.P.D.....	Nov., 1922	547.61			
St. Marys R.P.D.....	Dec., 1927		11,427.10	11,884.18	66.94
St. Thomas R.P.D.....	Aug., 1923	20,239.26		30.44	33.34
Saltfleet R.P.D.....	Feb., 1922	2,967.79		185.22	188.61
Sandwich R.P.D.....	July, 1922	57,122.09		425.61	468.09
Sarnia R.P.D.....	June, 1923	16,385.27			18.00
Scarboro R.P.D.....	Dec., 1923	29,875.94		41.94	45.54
Seaforth R.P.D.....	Nov., 1927		649.50	22.40	22.40
Simcoe R.P.D.....	Nov., 1922	2,303.74		23.55	30.32
Stamford R.P.D.....	Mar., 1922	6,503.41			
Stratford R.P.D.....	July, 1924		1,078.08	1,121.20	8.02
Strathroy R.P.D.....	Dec., 1926		735.26	764.67	37.30
Streetsville R.P.D.....	Nov., 1922	9,679.55		212.62	226.19
Tavistock R.P.D.....	April, 1923		8,991.28	9,350.93	
Thamesville R.P.D.....	Nov., 1927	507.92			
Tilbury R.P.D.....	Dec., 1923	5,672.74		40.50	40.50
Tillsonburg R.P.D.....	Dec., 1923	4,633.66		42.96	49.53
Wallaceburg R.P.D.....	Jan., 1923	8,533.22		15.62	15.62
Walsingham R.P.D.....	Dec., 1926	4,611.27		148.61	149.87
Walton R.P.D.....	Nov., 1924	1,981.40		69.90	69.90
Waterdown R.P.D.....	Oct., 1922	43,849.81		939.62	939.62
Waterford R.P.D.....	Nov., 1923		958.00	1,014.54	18.22
Watford R.P.D.....	Dec., 1929		264.26	274.83	
Welland R.P.D.....	April, 1922	31,416.33		332.31	374.09
Woodbridge R.P.D.....	Jan., 1923	15,838.30		104.38	155.96
Woodstock R.P.D.....	Feb., 1922	10,181.57		3.60	4.14
Totals, Rural power districts.....		733,635.38	132,123.95	116,714.80	8,931.17
Totals, Municipalities.....		76,944.31	352,164.16	367,713.29	115,321.35
Grand Totals.....		810,579.69	484,288.11	484,428.09	124,252.52

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## SYSTEM

## N.—CREDIT OR CHARGE

supplied to it to October 31, 1933, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1934

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1934		Accumulated amount standing as a credit or charge on October 31, 1934	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c. 1,295.93	\$ c. 216.72	\$ c. 5,203.01	\$ c. 1,561.51	\$ c. 38,897.17	\$ c. 1,561.51
193.68	225.16		1,109.10	3,926.64	
79.39		81.77	1,859.58		4,238.87
273.70			159.75	2,141.22	
797.69		1,466.90		6,956.55	
				22,206.87	
226.69			1,097.05	4,789.17	
114.86		303.53		3,289.82	
	248.33		2,240.93		4,128.09
	25.02		92.29		92.29
305.63			1,991.54	5,954.83	
59.85			1,031.31	516.95	
21.90			2,276.25		1,706.74
	458.54		2,770.35		2,838.75
809.48			1,164.03	19,881.81	
118.61		5,257.91		8,340.92	
2,283.52			316.11	59,047.02	
655.17		2,507.73		19,530.17	
1,195.04		7,436.87		38,504.25	
	25.98		406.93		1,082.41
92.07		251.80		2,640.84	
260.14		192.18		6,955.73	
	43.21		1,535.94		1,544.05
	30.52		346.67		385.08
386.91			1,829.67	8,223.22	
	359.65		1,078.43		1,078.43
20.32			411.03	117.21	
226.91		692.88		6,592.53	
185.14			2,170.38	2,641.85	
341.33		565.32		9,439.87	
184.41			40.05	4,754.37	
79.26			502.56	1,558.10	
1,753.99			2,273.43	43,330.37	
	38.32	611.34		611.34	
	10.57	40.99		40.99	
1,255.60			2,893.81	29,736.34	
632.49		564.10		16,983.31	
407.25			1,849.16	8,739.12	
29,305.43	5,305.57	44,179.03	84,014.77	780,515.67	87,056.49
2,761.66	9,663.36	74,895.33	198,002.18	75,827.28	228,663.74
32,067.09	14,968.93	119,074.36	282,016.95	856,342.95	315,720.23

# NIAGARA SYSTEM

## Reserve for Renewals—October 31, 1934

Total provision for renewals to October 31, 1933.....	\$20,375,039.60	
Deduct:		
Expenditures to October 31, 1933.....	1,688,849.71	
Balance brought forward October 31, 1933.....		\$18,686,189.89
Added during the year ending October 31, 1934:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them....	\$1,062,515.82	
Amounts included in costs of distribution of power within rural power districts.....	259,028.24	
Provision against equipment employed in respect of contracts with private companies which purchased power and against equipment in local distribution systems.....	305,620.76	
Payments by Ottawa Valley Power Company in respect of Chats Falls transformer station, under agreement....	11,160.17	
Minor credits to reserve upon transfers of lines and equipment.....	8,349.13	
Interest at 4% per annum on the monthly balances at the credit of the account.....	747,447.59	
		2,394,121.71
		\$21,080,311.60
Deduct:		
Expenditures during the year ending October 31, 1934.....	113,033.30	
Balance carried forward October 31, 1934.....		<u>\$20,967,278.30</u>



## NIAGARA SYSTEM

## Reserve for Obsolescence and Contingencies—October 31, 1934

Balance brought forward October 31, 1933.....	\$9,106,600.64	
Adjustment of cost of power in year 1933 in respect of certain company contracts, which were revised to a cost basis.....	453.16	\$9,107,053.80
Added during the year ending October 31, 1934:		
Amounts included in the costs of distribution of power within rural power districts.....	\$129,514.12	
Share of profits on sale of securities in which a portion of the reserve funds of the Commission stood invested.....	21,488.53	
Provision in respect of certain rural lines transferred to Niagara System.....	1,897.97	
Provision for Contingencies in respect of the Chats Falls transformer station held jointly by the Ottawa Power Company and the Commission.....	16,510.13	
Commission's share of American and Sterling exchange (net credit) on the transfer of funds to New York and London by the Province of Ontario to meet capital retirements, inclusive of adjustments of amounts overcharged the Commission in years 1932 and 1933. Note—Above amount is exclusive of exchange on interest coupons.	63,042.56	
Interest at 4% per annum on monthly balances at the credit of the account.....	364,264.03	596,717.34
		\$9,703,771.14
Contingencies met with during the year incidental to plant operation.....	\$57,341.62	
Interest on Commission's investment in the Terminal Building at Hamilton \$36,339.29 together with the operating loss for the year on the building of \$3,731.49 (before provisions for renewals and sinking fund).....	40,070.78	
Cost to the Commission (including provision for sinking fund \$463,860.08 and renewals \$305,620.76) of power delivered to private companies and customers under flat rate contracts in excess of the revenue received from them.....	1,348,697.11	
Interest on Commission's advances, and investment in the capital stock of the Hamilton Street Railway.....	\$156,907.79	
in excess of profit for the year (before provision for renewal of road and equipment) from operation of the street railway.....	25,731.60	131,176.19
Reversing amounts credited to contingencies reserves in the years 1932 and 1933 in respect of adjustment of amounts charged to City of Hamilton for 60-cycle power supplied in these years.....	37,363.04	
Amount appropriated from the contingency reserve and applied proportionately to each municipality in reduction of the cost of delivery of power thereto in the year ending October 31, 1934.....	1,521,131.25	3,135,779.99
Balance carried forward October 31, 1934.....		\$6,567,991.15

## NIAGARA SYSTEM

## SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1934

Municipality	Period of years ending Oct. 31, 1934	Amount	Municipality	Period of years ending Oct. 31, 1934	Amount
		\$ c.			\$ c.
Acton.....	17 years	39,496.60	Elmira.....	16 years	51,067.54
Agincourt.....	10 "	5,977.41	Elora.....	15 "	24,632.20
Ailsa Craig.....	14 "	10,326.94	Embro.....	15 "	7,183.10
Alvinston.....	11 "	10,682.38	Erieau.....	11 "	3,433.22
Amherstburg.....	17 "	30,980.31	Erie Beach.....	10 "	854.37
Ancaster twp.....	11 "	9,432.10	Essex.....	11 "	17,634.36
Arkona.....	8 "	3,415.16	Etobicoke.....	12 "	106,902.55
Aylmer.....	11 "	25,372.96	Exeter.....	13 "	25,838.84
Ayr.....	15 "	9,069.93	Fergus.....	15 "	32,735.24
Baden.....	17 "	20,951.67	Fonthill.....	9 "	3,286.68
Beachville.....	17 "	26,195.49	Forest.....	12 "	18,861.78
Belle River.....	12 "	5,846.56	Galt.....	18 "	343,202.53
Blenheim.....	14 "	23,423.97	Georgetown.....	16 "	61,884.68
Blyth.....	11 "	5,601.56	Glencoe.....	11 "	12,064.89
Bolton.....	14 "	11,594.40	Goderich.....	15 "	77,619.35
Bothwell.....	14 "	11,986.22	Granton.....	13 "	5,231.62
Brampton.....	18 "	103,319.95	Guelph.....	18 "	408,030.88
Brantford.....	15 "	530,929.09	Hagersville.....	16 "	51,378.73
Brantford twp.....	11 "	18,138.49	Hamilton.....	18 "	2,509,831.45
Bridgeport.....	7 "	3,071.37	Harriston.....	13 "	21,007.34
Brigden.....	12 "	7,753.45	Harrow.....	11 "	12,915.13
Brussels.....	11 "	7,802.49	Hensall.....	13 "	9,656.41
Burford.....	14 "	8,456.43	Hespeler.....	18 "	64,440.55
Burgessville.....	13 "	3,481.08	Highgate.....	13 "	6,421.85
Caledonia.....	17 "	13,726.27	Humberstone.....	11 "	11,183.77
Campbellville.....	10 "	1,344.24	Ingersoll.....	18 "	115,594.19
Cayuga.....	10 "	5,318.80	Jarvis.....	11 "	8,786.49
Chatham.....	14 "	244,910.27	Kingsville.....	11 "	23,734.07
Chippawa.....	12 "	10,688.98	Kitchener.....	18 "	781,227.72
Clifford.....	11 "	3,866.53	Lambeth.....	14 "	5,913.61
Clinton.....	15 "	29,163.38	La Salle.....	9 "	7,853.54
Comber.....	14 "	12,377.19	Leamington.....	11 "	44,229.84
Cottam.....	8 "	2,241.59	Listowel.....	13 "	45,689.81
Courtright.....	11 "	3,442.58	London.....	18 "	1,416,043.89
Dashwood.....	12 "	5,320.48	London Ry. Comm.....	15 "	91,307.81
Delaware.....	14 "	1,807.27	London twp.....	10 "	9,502.15
Dorchester.....	15 "	4,472.71	Long Branch.....	4 "	8,831.29
Drayton.....	11 "	7,548.33	Lucan.....	14 "	12,242.49
Dresden.....	14 "	19,749.25	Lynden.....	14 "	9,126.37
Drumbo.....	15 "	4,038.57	Markham.....	11 "	10,457.40
Dublin.....	12 "	3,689.72	Merlin.....	11 "	7,831.92
Dundas.....	18 "	89,560.24	Merritton.....	13 "	62,634.58
Dunnville.....	11 "	36,067.19	Milton.....	16 "	67,705.64
Dutton.....	14 "	12,290.97	Milverton.....	13 "	29,573.74
East Windsor.....	12 "	139,261.93	Mimico.....	17 "	83,618.27

## NIAGARA SYSTEM

## SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1934

Municipality	Period of years ending Oct. 31, 1934	Amount	Municipality	Period of years ending Oct. 31, 1934	Amount
		\$ c.			\$ c.
Mitchell.....	18 years	27,708.14	Stamford twp.....	13 years	54,280.79
Moorefield.....	11 "	3,931.96	Stouffville.....	11 "	8,912.62
Mount Brydges.....	14 "	4,460.85			
Newbury.....	11 "	2,767.14	Stratford.....	18 "	375,971.07
New Hamburg.....	18 "	31,661.77	Strathroy.....	15 "	52,620.90
			Sutton.....	11 "	8,303.72
New Toronto.....	15 "	259,357.33	Tavistock.....	13 "	26,989.11
Niagara Falls.....	14 "	356,603.43	Tecumseh.....	12 "	14,944.13
Niagara-on-the-Lake	11 "	18,308.81			
Norwich.....	17 "	23,485.72	Thamesford.....	15 "	10,643.46
Oil Springs.....	11 "	16,048.30	Thamesville.....	14 "	10,545.78
			Thedford.....	11 "	5,462.05
Otterville.....	13 "	5,127.05	Thorndale.....	15 "	5,593.83
Palmerston.....	13 "	26,653.44	Thorold.....	12 "	52,920.28
Paris.....	15 "	71,286.89			
Parkhill.....	11 "	11,259.93	Tilbury.....	14 "	27,410.33
Petrolia.....	13 "	63,863.94	Tillsonburg.....	18 "	52,836.24
			Toronto.....	18 "	11,464,279.18
Plattsville.....	15 "	5,589.37	Toronto twp.....	16 "	56,414.19
Point Edward.....	12 "	29,386.60	Walkerville.....	15 "	395,616.59
Port Colborne.....	13 "	55,085.73			
Port Credit.....	17 "	22,366.52	Wallaceburg.....	14 "	113,492.49
Port Dalhousie.....	13 "	19,140.76	Wardsville.....	11 "	2,124.80
			Waterdown.....	18 "	14,627.98
Port Dover.....	11 "	14,397.07	Waterford.....	14 "	19,469.40
Port Rowan.....	8 "	3,876.69	Waterloo.....	18 "	153,041.94
Port Stanley.....	17 "	24,446.66			
Preston.....	18 "	168,456.92	Watford.....	12 "	13,162.12
Princeton.....	15 "	5,171.78	Welland.....	12 "	165,902.51
			Wellesley.....	13 "	10,780.94
Queenston.....	11 "	4,112.51	West Lorne.....	13 "	17,748.82
Richmond Hill.....	10 "	9,707.40	Weston.....	18 "	139,319.79
Ridgetown.....	14 "	25,643.35			
Riverside.....	12 "	48,821.25	Wheatley.....	11 "	7,289.53
Rockwood.....	16 "	7,008.90	Windsor.....	15 "	1,166,493.19
			Woodbridge.....	15 "	17,807.19
Rodney.....	12 "	7,797.20	Woodstock.....	18 "	233,803.35
St. Catharines.....	13 "	325,288.97	Wyoming.....	13 "	4,964.31
St. Clair Beach.....	12 "	3,989.36			
St. George.....	14 "	8,522.48	York East twp.....	10 "	137,501.58
St. Jacobs.....	12 "	8,820.18	York North twp.....	11 "	60,834.26
			Zurich.....	12 "	8,299.79
St. Marys.....	18 "	84,613.22			
St. Thomas.....	18 "	293,235.39	Toronto Trans. Com.	13 "	136,876.98
Sandwich.....	11 "	140,799.88	Sandwich, Windsor &		
Sarnia.....	13 "	367,445.02	Amherstburg Ry. Co.	12 "	114,149.86
Scarboro twp.....	11 "	97,483.60	Windsor, Essex &		
			Lake Shore Railway		
Seaforth.....	18 "	40,569.35	Association.....	5 "	9,681.42
Simcoe.....	14 "	56,252.93			
Springfield.....	12 "	5,819.93			



NIAGARA SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1934

Rural power district*	Period of years ending Oct. 31, 1934	Amount	Rural power district*	Period of years ending Oct. 31, 1934	Amount
		\$ c.			\$ c.
Acton R.P.D.	7 years	536.28	London R.P.D.	12 years	64,189.91
Ailsa Craig R.P.D.	5 "	259.40	Lucan R.P.D.	9 "	3,981.62
Alvinston R.P.D.	6 "	269.33	Lynden R.P.D.	13 "	10,028.00
Amherstburg R.P.D.	11 "	29,668.18	Markham R.P.D.	12 "	17,933.18
Aylmer R.P.D.	13 "	15,446.78	Merlin R.P.D.	6 "	7,882.11
Ayr R.P.D.	9 "	2,052.13	Milton R.P.D.	10 "	7,604.15
Baden R.P.D.	13 "	15,080.25	Milverton R.P.D.	8 "	3,266.21
Beamsville R.P.D.	12 "	44,721.05	Mitchell R.P.D.	9 "	8,803.17
Belle River R.P.D.	12 "	14,102.46	Newmarket R.P.D.	11 "	11,036.28
Blenheim R.P.D.	11 "	7,612.72	Niagara R.P.D.	13 "	21,697.75
Bond Lake R.P.D.	11 "	34,731.36	Norwich R.P.D.	10 "	19,430.06
Bothwell R.P.D.	11 "	6,740.42	Oil Springs R.P.D.	9 "	2,930.82
Brampton R.P.D.	11 "	5,720.05	Palmerston R.P.D.	8 "	2,048.21
Brant R.P.D.	13 "	19,636.30	Petrolia R.P.D.	12 "	1,612.55
Brigden R.P.D.	8 "	3,325.84	Preston R.P.D.	13 "	39,526.94
Burford R.P.D.	8 "	6,100.29	Ridgetown R.P.D.	13 "	19,298.73
Caledonia R.P.D.	10 "	12,057.33	St. Jacobs R.P.D.	12 "	12,371.12
Chatham R.P.D.	13 "	22,484.68	St. Marys R.P.D.	7 "	10,786.37
Chippawa R.P.D.	13 "	7,115.55	St. Thomas R.P.D.	12 "	27,680.62
Clinton R.P.D.	7 "	6,446.23	Saltfleet R.P.D.	13 "	45,426.22
Delaware R.P.D.	12 "	17,445.05	Sandwich R.P.D.	13 "	52,918.89
Dorchester R.P.D.	13 "	23,063.32	Sarnia R.P.D.	12 "	27,056.49
Dresden R.P.D.	7 "	1,542.10	Scarboro R.P.D.	11 "	13,126.49
Drumbo R.P.D.	13 "	7,224.47	Seaforth R.P.D.	7 "	2,321.82
Dundas R.P.D.	13 "	23,878.68	Simcoe R.P.D.	12 "	8,874.21
Dunnville R.P.D.	7 "	1,319.38	Stamford R.P.D.	13 "	6,947.48
Dutton R.P.D.	9 "	4,814.26	Stratford R.P.D.	11 "	9,698.18
Elmira R.P.D.	9 "	2,401.30	Strathroy R.P.D.	8 "	4,657.20
Elora R.P.D.	9 "	6,013.21	Streetsville R.P.D.	12 "	15,817.07
Essex R.P.D.	10 "	11,945.97	Tavistock R.P.D.	12 "	8,722.93
Exeter R.P.D.	12 "	15,310.98	Thamesville R.P.D.	7 "	5,251.82
Forest R.P.D.	8 "	2,179.57	Tilbury R.P.D.	11 "	6,601.90
Galt R.P.D.	13 "	7,368.76	Tillsonburg R.P.D.	11 "	22,952.51
Georgetown R.P.D.	10 "	6,056.58	Wallaceburg R.P.D.	12 "	14,091.70
Goderich R.P.D.	10 "	4,740.70	Walsingham R.P.D.	8 "	7,928.18
Grantham R.P.D.	10 "	24,424.37	Walton R.P.D.	10 "	5,278.75
Guelph R.P.D.	10 "	12,947.74	Waterdown R.P.D.	12 "	23,028.67
Haldimand R.P.D.	10 "	7,207.56	Waterford R.P.D.	11 "	7,399.14
Harriston R.P.D.	5 "	1,001.95	Watford R.P.D.	5 "	991.47
Harrow R.P.D.	11 "	14,885.06	Welland R.P.D.	13 "	61,992.15
Ingersoll R.P.D.	13 "	16,963.15	Woodbridge R.P.D.	12 "	33,119.24
Jordan R.P.D.	13 "	9,862.79	Woodstock R.P.D.	13 "	28,296.45
Keswick R.P.D.	11 "	17,906.03			
Kingsville R.P.D.	11 "	38,128.45			
Listowel R.P.D.	8 "	6,182.18			
			Total		\$27,539,414.02

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

# NIAGARA SYSTEM

## Reserve for Sinking Fund—October 31, 1934

Total provision for sinking fund to October 31, 1933.....	\$24,564,512.19	
Add: Adjustments in respect of previous years' assessments....	3,155.37	
		\$24,567,667.56
Provided in the year ending October 31, 1934 in respect of:		
Advances by the Province for construction of transmission lines and stations.....	\$590,161.61	
Advances by the Province for construction of rural power districts.....	68,856.46	
Advances by the Province for construction of pipe line to Ontario Power generating station.....	36,923.85	
Advances by the Province for construction of Queenston-Chippawa development.....	809,538.14	
Bonds issued and assumed by the Commission in connection with the purchase of the properties of the Ontario Power Company, Toronto Power Company, Essex system and Thorold system.....	481,727.68	
Provision in respect of certain rural lines transferred to Niagara system.....	1,832.01	
Interest at 4% per annum on amounts standing at the credit of the reserve accounts.....	982,706.71	
		2,971,746.46
Total.....		<u>\$27,539,414.02</u>

### NIAGARA SYSTEM—RURAL LINES

Statement showing Interest, Sinking Fund, Renewals and Contingencies charged by the Commission to the Municipalities which operate the respective rural lines for the year ending October 31, 1934

Operated by	Capital cost	Interest	Sinking fund	Renewals	Contingencies	Total interest, sinking fund, renewals and contingencies charged
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Milton—1 year.....	439.92	16.40	5.95	6.61	3.31	32.27
Milton—3 months*..... (Nov.-Jan.)	15,469.92	197.28	71.60	79.55	39.77	388.20
Welland.....	19,617.60	823.94	353.12	392.35	196.18	1,765.59
Totals.....	20,057.52	1,037.62	430.67	478.51	239.26	2,186.06

\*Lines transferred to Niagara transmission lines, Feb. 1, 1934.

### NIAGARA SYSTEM—RURAL LINES

#### Reserves for Renewals—October 31, 1934

Total provision for renewals to October 31, 1933.....	\$6,492.65
Deduct:	
Expenditures to October 31, 1933.....	288.03
Balance brought forward October 31, 1933.....	\$6,204.62
Added during the year ending October 31, 1934:	
By charges against the municipalities who operate the lines.....	\$478.51
Interest at 4% per annum on monthly balances at the credit of the account.....	221.80
	699.81
	\$6,904.43
Deduct:	
Share of renewals reserve on rural lines transferred to Niagara system.....	2,792.12
Balance carried forward October 31, 1934.....	<u>\$4,112.31</u>



### NIAGARA SYSTEM—RURAL LINES

#### Reserve for Contingencies—October 31, 1934

Balance brought forward October 31, 1933.....		\$3,047.63
Added during the year ending October 31, 1934:		
By charges against municipalities which operate the lines.....	\$239.26	
Interest at 4% per annum on monthly balances at the credit of the account.....	108.37	
		<u>347.63</u>
		3,395.26
Deduct:		
Share of contingencies reserve on rural lines transferred to Niagara system.....		1,270.85
Balance carried forward October 31, 1934.....		<u>\$2,124.41</u>

### NIAGARA SYSTEM—RURAL LINES

Statement showing the total Sinking Fund in respect of each line, together with interest allowed thereon to October 31, 1934

Lines operated by	Period of years ending October 31, 1934	Amount
Milton.....	21 years	\$ c. 236.16
Welland .....	22 "	11,391.16
Total.....		<u>\$11,627.32</u>

### NIAGARA SYSTEM—RURAL LINES

#### Reserve for Sinking Fund—October 31, 1934

Total provision for sinking fund to October 31, 1933.....	\$14,046.12
Provided in the year ending October 31, 1934.....	430.67
Interest at 4% per annum on the amount standing at the credit of the account.....	465.45
	<u>\$14,942.24</u>
Deduct:	
Share of sinking fund on rural lines transferred to Niagara system.....	3,314.92
Total.....	<u>\$11,627.32</u>

## GEORGIAN BAY

## Operating Account for Year

COSTS OF OPERATION AS PROVIDED UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased.....		\$ 43,832.70	
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:			
Generation and transmission equipment.....	\$351,019.54		
Rural power districts.....	58,267.17		
			409,286.71
Interest (including exchange thereon) on capital investment in:			
Generation and transmission equipment.....	\$343,759.04		
Rural power districts.....	36,986.15		
			380,745.19
Provision for renewal of:			
Generation and transmission equipment.....	\$99,287.01		
Rural power districts.....	30,557.10		
			129,844.11
Provision for obsolescence and contingencies in respect of:			
Generation and transmission equipment.....	\$28,291.62		
Rural power districts.....	15,278.55		
			43,570.17
Provision for sinking fund:			
By charges included in the cost of power delivered to municipalities and rural power districts.....	\$71,847.17		
By charges against contracts with private companies which purchased power and against local distribution systems....	8,050.95		
By charges included in the cost of distribution of power within rural power districts.....	8,450.52		
			88,348.64

\$1,095,627.52

## GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1934	To Oct. 31 1934				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Alliston.....	60.00	58.00	92,882.36	218.6	391.86	4,200.01	4,208.93
Arthur.....	75.00	75.00	68,353.30	128.3	229.99	3,417.90	3,081.47
Barrie.....	36.00	36.00	557,199.95	2,257.7	4,047.11	26,403.93	25,213.65
Beaverton.....	43.00	43.00	50,641.49	174.8	313.34	2,846.23	2,255.94
Beeton.....	75.00	72.00	54,050.52	96.1	172.27	2,373.30	2,435.58
Bradford.....	70.00	68.00	64,179.19	140.2	251.32	3,376.42	2,896.33
Brechin.....	55.00	55.00	16,761.51	43.0	77.08	954.79	742.24
Cannington.....	45.00	45.00	44,574.58	151.2	271.04	2,455.26	1,996.35
Chatsworth.....	45.00	47.00	14,660.09	48.2	86.40	800.67	661.15
Chesley.....	40.00	40.00	133,642.77	483.5	866.73	5,666.12	6,032.99

## SYSTEM

Ending October 31, 1934

## REVENUE FOR PERIOD

Amounts received from (or billed against) municipalities at interim monthly rates.....	\$852,337.00	
Power sold to private companies and customers.....	87,061.81	
Amounts received from (or billed against) customers in rural power districts.....	242,562.04	
		\$1,181,960.85
Add:		
Amounts due by certain municipalities, being the difference between the sums received (or billed) at interim monthly rates and the amounts charged—following annual adjustment—in respect of power supplied in the year.....	\$1,912.72	
Amounts due by municipalities comprising certain rural power districts, being the difference between the sums received from (or billed against) customers therein and the amounts charged to such districts—following annual adjustment—in respect of power supplied in the year.....	19,000.52	
		20,913.24
		\$1,202,874.09
Deduct:		
Amounts received from (or billed against) certain municipalities at interim monthly rates in excess of the amounts charged—following annual adjustment—in respect of power supplied in the year.....	\$97,607.83	
Amounts received from (or billed against) customers in certain rural power districts in excess of the amounts charged to such districts—following annual adjustment—in respect of power supplied in the year.....	9,638.74	
		107,246.57
Revenue.....		\$1,095,627.52
		\$1,095,627.52

## SYSTEM

## G.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1934

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,409.98	308.62	978.01	82.27	11,580.28	12,754.81	1,174.53	
1,104.10	224.05	719.62	48.64	8,825.77	9,619.34	793.57	
6,520.27	2,102.82	5,866.83	855.92	71,010.53	81,275.70	10,265.17	
654.74	188.82	533.16	66.27	6,858.50	7,517.06	658.56	
884.18	173.00	569.12	36.43	6,643.88	6,972.37	328.49	
996.33	215.24	675.70	53.15	8,464.49	9,582.78	1,118.29	
247.16	61.32	176.49	16.30	2,275.38	2,366.78	91.40	
581.84	164.68	469.34	57.32	5,995.83	6,804.72	808.89	
194.48	58.91	154.36	18.27	1,974.24	2,244.48	270.24	
1,679.91	517.37	1,405.71	183.30	16,352.13	19,341.39	2,989.26	



## GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse- power supplied in year after cor- rection for power factor	Cost of power pur- chased	Share of operating	
	To Jan. 1 1934	To Oct. 31 1934				Operating, main- tenance and adminis- trative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Coldwater.....	39.00	39.00	61,258.71	223.8	401.18	2,687.31	2,756.18
Collingwood.....	40.00	40.00	344,467.13	1,177.7	2,111.12	19,199.29	15,361.08
Cookstown.....	60.00	55.00	20,689.43	54.7	98.05	1,043.29	936.52
Creemore.....	55.00	55.00	37,421.32	94.2	168.86	2,033.88	1,682.15
Dundalk.....	42.00	42.00	42,984.72	157.7	282.69	2,348.16	1,940.40
Durham.....	45.00	45.00	102,388.93	356.8	639.59	5,793.60	4,602.30
Elmvale.....	43.00	43.00	41,563.97	150.9	270.50	2,400.65	1,858.59
Elmwood.....	50.00	46.00	16,150.40	53.9	96.62	927.95	731.04
Flesherton.....	50.00	48.00	24,338.67	77.0	138.03	1,488.08	1,098.57
Grand Valley.....	60.00	58.00	38,217.93	94.2	168.86	1,995.96	1,719.21
Gravenhurst.....	28.00	27.00	125,301.52	653.9		5,958.10	5,700.30
Hanover.....	35.00	35.00	242,787.59	967.4	1,734.17	10,520.76	10,898.51
Holstein.....	90.00	90.00	13,647.92	15.1	27.07	809.55	615.70
Huntsville.....	28.00	28.00	210,720.01	928.4		9,045.23	9,545.50
Kincardine.....	58.00	54.00	212,525.16	560.8	1,005.28	10,112.10	9,676.73
Kirkfield.....	60.00	60.00	10,423.76	21.9	39.26	543.04	469.33
Lucknow.....	63.00	62.00	83,340.67	185.7	332.88	3,842.25	3,782.53
Markdale.....	40.00	40.00	42,154.21	160.9	288.43	2,145.58	1,910.67
Meaford.....	46.00	46.00	130,484.35	383.3	687.10	5,247.65	5,932.63
Midland.....	35.00	35.00	627,379.98	2,614.6	4,686.89	27,937.42	28,543.55
Mildmay.....	60.00	60.00	27,565.05	71.3	127.82	1,301.12	1,269.02
Mount Forest.....	50.00	50.00	112,267.64	337.0	604.10	6,161.13	5,069.95
Neustadt.....	70.00	70.00	30,766.33	32.6	58.44	880.27	1,376.07
Orangeville.....	48.00	48.00	186,278.73	520.4	932.86	8,574.97	8,439.72
Owen Sound.....	36.00	36.00	802,279.45	3,233.8	5,796.85	34,996.07	36,326.00
Paisley.....	60.00	60.00	51,772.05	111.5	199.87	2,008.03	2,351.06
Penetanguishene.....	40.00	40.00	170,887.90	603.8	1,082.36	7,628.86	7,730.56
Port Elgin.....	40.00	40.00	64,369.56	227.1	407.10	2,997.77	2,954.20
Port McNicoll.....	42.00	40.00	22,352.45	79.2	141.97	1,009.47	1,013.67
Port Perry.....	52.00	52.00	73,233.33	192.6	345.25	3,233.05	3,325.59
Priceville.....	85.00	70.00	8,366.66	17.1	30.65	435.50	380.26
Ripley.....	80.00	80.00	31,723.47	55.0	98.59	1,396.02	1,437.38
Rosseau.....	127.00	110.00	29,907.95	37.4		1,252.33	1,372.68
Shelburne.....	46.00	48.00	69,513.73	217.7	390.24	3,426.60	3,139.73
Southampton.....	40.00	40.00	60,555.69	230.0	412.29	2,882.78	2,778.06
Stayner.....	44.00	44.00	55,580.43	190.4	341.31	3,039.50	2,506.23
Sunderland.....	63.00	61.00	24,376.18	57.3	102.71	1,099.03	1,084.16
Tara.....	53.00	50.00	26,631.06	78.1	140.00	1,264.58	1,197.62
Teeswater.....	60.00	59.00	41,990.23	97.9	175.49	1,988.95	1,894.25
Thornton.....	80.00	75.00	12,874.84	27.5	49.30	626.03	582.07

## SYSTEM

## G.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1934

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
757.64	237.35	640.16	84.84	7,564.66	8,728.83	1,164.17	.....
4,477.42	1,274.20	3,626.98	446.48	46,496.57	47,108.97	612.40	.....
301.78	76.54	217.85	20.74	2,694.77	3,060.94	366.17	.....
555.50	132.46	394.02	35.72	5,002.59	5,178.21	175.62	.....
536.72	164.22	452.59	59.79	5,784.57	6,624.75	840.18	.....
1,315.76	388.94	1,077.40	135.27	13,952.86	16,057.36	2,104.50	.....
522.24	161.43	437.64	57.22	5,708.27	6,489.66	781.39	.....
212.52	66.00	170.00	20.43	2,224.56	2,519.27	294.71	.....
295.96	88.85	256.25	29.19	3,394.93	3,720.49	325.56	.....
571.27	133.28	402.33	35.71	5,026.62	5,494.02	467.40	.....
1,167.60	494.96	1,319.68	247.90	14,888.54	17,768.19	2,879.65	.....
2,874.78	963.46	2,556.48	366.75	29,914.91	33,886.09	3,971.18	.....
242.03	39.28	143.71	5.72	1,883.06	1,358.25	.....	524.81
2,325.79	777.67	2,225.45	351.97	24,271.61	26,674.59	2,402.98	.....
3,101.96	728.84	2,237.75	212.61	27,075.27	30,643.08	3,567.81	.....
163.63	34.55	109.76	8.30	1,367.87	1,316.50	.....	51.37
1,286.48	283.31	877.53	70.40	10,475.38	11,543.35	1,067.97	.....
480.20	156.75	443.84	61.00	5,486.47	6,436.31	949.84	.....
1,824.71	461.87	1,373.92	145.31	15,673.19	17,633.14	1,959.95	.....
7,377.43	2,335.83	6,702.88	991.22	78,575.22	91,512.12	12,936.90	.....
388.24	100.81	290.27	27.03	3,504.31	4,275.00	770.69	.....
1,555.18	393.29	1,182.10	127.76	15,093.51	16,847.89	1,754.38	.....
545.55	88.55	322.38	12.36	3,283.62	2,223.63	.....	1,059.99
2,655.68	650.33	1,959.22	197.29	23,410.07	24,980.00	1,569.93	.....
9,421.83	2,985.39	8,446.79	1,225.97	99,198.90	116,418.27	17,219.37	.....
806.45	176.70	544.80	42.27	6,129.18	6,687.50	558.32	.....
2,217.72	631.11	1,818.56	228.91	21,338.08	24,153.24	2,815.16	.....
822.30	242.37	677.77	86.10	8,187.61	9,085.14	897.53	.....
286.87	88.68	236.42	30.03	2,807.11	3,198.60	391.49	.....
1,070.22	245.14	771.11	73.02	9,063.38	10,013.00	949.62	.....
132.31	36.88	88.10	6.48	1,110.18	1,237.27	127.09	.....
521.82	101.51	334.03	20.85	3,910.20	4,410.96	491.76	.....
521.26	92.42	314.77	14.18	3,567.64	4,195.18	627.54	.....
944.43	259.50	731.93	82.53	8,974.96	10,374.74	1,399.78	.....
740.07	235.44	637.60	87.20	7,773.44	9,201.42	1,427.98	.....
721.67	212.42	585.22	72.18	7,478.53	8,379.07	900.54	.....
370.17	82.45	256.67	21.72	3,016.91	3,513.11	496.20	.....
372.62	101.36	280.38	29.61	3,386.17	3,951.50	565.33	.....
639.30	163.41	442.13	37.11	5,340.64	5,795.35	454.71	.....
201.18	46.59	135.57	10.43	1,651.17	2,083.57	432.40	.....

## GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1934	To Oct. 31 1934				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Tottenham.....	95.00	88.00	41,694.87	58.8	105.40	2,222.67	1,886.12
Uxbridge.....	55.00	55.00	84,709.93	211.7	379.49	3,485.75	3,851.28
Victoria Harbour.....	46.00	44.00	22,475.90	74.1	132.83	1,141.54	1,015.08
Walkerton.....	38.00	38.00	118,333.01	462.6	829.27	5,875.49	5,429.05
Waubashene.....	44.00	44.00	12,830.33	48.7	87.30	892.56	578.15
Warton.....	65.00	69.00	110,605.68	216.3	387.74	4,536.97	5,062.13
Windermere.....	85.00	75.00	16,649.40	34.6		871.48	762.53
Wingham.....	60.00	61.00	140,420.40	310.1	555.89	5,556.30	6,353.46
Woodville.....	58.00	58.00	21,355.51	50.6	90.70	1,156.71	944.65
RURAL POWER DISTRICTS							
Alliston R.P.D.—Essa, Tecumseth and Tossorontio twps.....			24,433.37	68.9	123.51	1,003.61	1,113.46
Arthur R.P.D.—Luther E. and Luther W. twps.....			1,298.27	3.2	5.74	56.82	58.99
Bala R.P.D.—Medora and Wood twp.....			33,298.43	131.3	235.36	1,513.70	1,520.89
Barrie R.P.D.—Innisfil, Oro and Vespra twps.....			79,909.24	259.5	465.17	3,209.31	3,641.58
Baysville R.P.D.—Franklin, Macaulay, McLean, Ridout and Sherbourne twps.....			17,334.98	49.9		737.70	795.38
Beaumaris R.P.D.—Macaulay, Medora and Wood, Monck and Muskoka twps.....			38,797.50	170.3		1,703.86	1,766.23
Beaverton R.P.D.—Brock, Georgina, Mara and Thorah twps.....			39,750.17	129.1	231.43	2,373.51	1,815.09
Beeton R.P.D.—Tecumseth twp.....			2,812.19	5.0	8.96	110.85	129.09
Bradford R.P.D.—Gwillimbury W., King and Tecumseth twps.....			19,134.05	40.1	71.88	867.54	875.66
Bruce R.P.D.—Brant, Carrick, Culross, Greenock and Saugeen twps..			36,470.52	99.9	179.06	1,366.00	1,670.99
Buckskin R.P.D.—Matchedash and Medora and Wood twps.....			5,689.25	14.4	25.81	263.83	258.99
Cannington R.P.D.—Brock, Eldon and Mariposa twps.....			13,349.24	41.1	73.67	625.41	597.83
Chatham R.P.D.—Holland twp.....			3,631.52	8.0	14.34	163.46	165.70
Cookstown R.P.D.—Essa and Innisfil twps.....			302.58	0.8	1.43	11.93	13.80
Creemore R.P.D.—Nottawasaga, Osprey, Sunnidale and Tossorontio twps.....			18,048.57	55.0	98.59	844.03	825.24



## SYSTEM

## G.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1934

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
713.49	129.10	439.04	22.29	5,518.11	5,241.56	.....	276.55
1,260.64	285.27	891.95	80.26	10,234.64	11,642.56	1,407.92	.....
298.80	85.40	237.20	28.09	2,938.94	3,288.33	349.39	.....
1,308.76	454.33	1,246.08	175.37	15,318.35	17,576.95	2,258.60	.....
156.88	51.90	135.10	18.46	1,920.35	2,140.93	220.58	.....
1,762.19	360.06	1,160.98	82.00	13,352.07	14,777.78	1,425.71	.....
262.05	58.51	175.27	13.12	2,142.96	2,618.99	476.03	.....
2,172.49	483.30	1,478.12	117.56	16,717.12	18,867.60	2,150.48	.....
323.48	71.21	224.86	19.18	2,830.79	2,933.31	102.52	.....
347.55	85.81	257.26	26.12	2,957.32	2,957.32	see page	219
19.41	4.52	13.66	1.21	160.35	160.35	"	"
367.75	127.84	350.40	49.79	4,165.73	4,165.73	"	"
1,066.73	317.96	841.39	98.38	9,640.52	9,640.52	"	"
245.01	76.87	182.79	18.92	2,056.67	2,056.67	"	"
427.36	161.31	408.60	64.56	4,531.92	4,531.92	"	"
530.53	148.04	418.50	48.95	5,566.05	5,566.05	"	"
46.00	9.01	29.61	1.90	335.42	335.42	"	"
300.50	65.45	201.45	15.20	2,397.68	2,397.68	"	"
517.00	133.75	383.90	37.87	4,288.57	4,288.57	"	"
84.29	24.46	59.90	5.46	722.74	722.74	"	"
182.82	48.01	140.56	15.58	1,683.88	1,683.88	"	"
56.29	15.88	38.24	3.03	456.94	456.94	"	"
4.41	1.12	3.18	0.30	36.17	36.17	"	"
248.33	66.34	190.04	20.85	2,293.42	2,293.42	"	"

## GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual cost

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
Elmvale R.P.D.—Flos, Medonte, Oro and Vespra twps.	19,166.07	61.5	110.24	721.66	871.53
Flesherton R.P.D.—Artemesia twp.	2,195.68	7.0	12.55	106.89	98.12
Gravenhurst R.P.D.—Muskoka twp.	5,639.54	27.2		318.94	256.59
Hawkestone R.P.D.—Orillia and Oro twps.	613.46	80.4	1,767.78	167.42	22.97
Holstein R.P.D.—Bentinck, Egremont and Normanby twps.					
Huntsville R.P.D.—Brunel, Chafey and Franklin twps.	13,870.85	51.5		719.96	636.23
Innisfil R.P.D.—Gwillimbury W. and Innisfil twps.	76,330.18	210.5	377.34	3,189.42	3,487.36
Lucknow R.P.D.—Kinloss twp.					
Mariposa R.P.D.—Brock, Mariposa and Reach twps.	42,778.43	133.3	238.95	1,785.05	1,928.67
Markdale R.P.D.—Artemesia, Euphrasia, Glenelg and Holland twps.	11,500.90	35.0	62.74	477.67	525.45
Meaford R.P.D.—St. Vincent twp.					
Medonte R.P.D.—Baxter and Tay twps.	5,427.19	20.6	36.93	296.01	247.58
Midland R.P.D.—Tay and Tiny twps.	5,567.01	23.5	42.13	307.69	256.86
Neustadt R.P.D.—Bentinck twp.					
Nottawasaga R.P.D.—Nottawasaga twp.	8,442.72	27.2	48.76	479.73	373.98
Orangeville R.P.D.—Amaranth, Caledon, Erin and Garafraxa E. twps.	12,670.49	33.3	59.69	531.72	573.82
Owen Sound R.P.D.—Derby, Sarawak and Sydenham twps.	8,711.98	33.9	60.77	349.84	393.30
Port Perry R.P.D.—Cartwright, Manvers, Reach and Scugog twps.	42,203.97	108.9	195.21	2,121.09	1,922.25
Ripley R.P.D.—Huron and Kinloss twps.	4,503.18	10.3	18.46	196.68	205.55
Sauble R.P.D.—Amabel and Képél twps.	6,631.89	12.9	23.12	249.61	303.59
Shelburne R.P.D.—Amaranth, Melancthon and Mulmur twps.	10,021.91	28.8	51.63	411.01	456.71
Sparrow Lake R.P.D.—Matchedash, Morrison, Orillia and Rama twps.	28,542.32	114.2	204.71	1,104.65	1,290.59

## SYSTEM

## G.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1934

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
257.37	78.65	201.81	23.32	2,264.58	2,264.58	see page	219
26.56	8.80	23.12	2.65	278.69	278.69	"	"
57.11	22.75	59.40	10.31	725.10	725.10	"	"
12.27	3.07	6.46	30.48	2,010.45	2,010.45	"	"
172.62	54.05	146.42	19.52	1,748.80	1,748.80	"	"
1,095.52	273.08	803.71	79.80	9,306.23	9,306.23	"	"
582.57	154.51	450.43	50.54	5,190.72	5,190.72	"	"
155.55	48.17	121.09	13.27	1,403.94	1,403.94	"	"
66.35	21.95	57.14	7.81	733.77	733.77	see page	221
64.64	20.63	59.37	8.91	760.23	760.23	"	"
113.15	31.86	88.90	10.32	1,146.70	1,146.70	"	"
184.94	45.36	133.27	12.62	1,541.42	1,541.42	"	"
101.78	32.05	90.14	12.85	1,040.73	1,040.73	"	"
621.06	142.58	444.38	41.29	5,487.86	5,487.86	"	"
68.96	15.41	47.41	3.90	556.37	556.37	"	"
105.93	23.70	69.68	4.89	780.52	780.52	"	"
141.46	38.46	105.53	10.92	1,215.72	1,215.72	"	"
336.97	113.98	300.53	43.29	3,394.72	3,394.72	"	"



## GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual cost

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
Tara R.P.D.—Amabel, Arran, Derby and Keppel twps.....	17,062.65	49.0	87.83	827.45	771.45
Thornton R.P.D.—Essa twp. ....	6,577.39	13.2	23.66	263.83	300.51
Utterson R.P.D.—Cardwell, Humphrey, Medora and Wood, Stephenson and Watt twps. ....	18,942.64	49.3		715.50	864.67
Uxbridge R.P.D.—Brock, Georgina, Reach, Scott and Uxbridge twps...	36,194.01	89.3	160.08	1,454.90	1,644.42
Wasaga Beach R.P.D.—Flos, Notawasaga and Sunnidale twps.....	51,289.27	175.7	314.96	2,428.47	2,317.50
Wroxeter R.P.D.—Howick, Morris and Turnberry twps.....	46,664.09	96.1	172.27	1,782.45	2,125.47
Totals—Municipalities.....	5,997,559.90	20,559.7	33,889.54	280,516.01	271,396.85
Totals—Rural power districts.....	815,807.70	2,569.1	5,604.76	35,859.20	37,124.09
Totals—Companies and distributing systems.....	765,214.57	2,420.2	4,338.40	34,644.33	35,238.10
	7,578,582.17				
Non-operating capital.....	1,757.12				
Grand totals.....	7,580,339.29	25,549.0	43,832.70	351,019.54	343,759.04

SYSTEM

G.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1934

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
239.81	68.75	179.08	18.57	2,192.94	2,192.94	see page	221
104.52	24.35	69.26	5.00	791.13	791.13	"	"
277.84	67.80	199.43	18.69	2,143.93	2,143.93	"	"
540.99	122.64	381.10	33.85	4,337.98	4,337.98	"	"
665.95	196.01	540.04	66.62	6,529.55	6,529.55	"	"
735.82	165.42	491.01	36.43	5,508.87	5,508.87	"	"
77,858.06	21,928.05	63,258.98	7,794.40	756,641.89	852,337.00	97,607.83	1,912.72
11,173.72	3,060.40	8,588.19	973.97	102,384.33	102,384.33	.....	.....
10,255.23	3,303.17	8,050.95	(8,768.37)	87,061.81	87,061.81	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
99,287.01	28,291.62	79,898.12	.....	946,088.03	1,041,783.14	97,607.83	1,912.72

## GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Alliston R.P.D.—Essa, Tecumseth and Tossorontio twps.	38,676.46	19,086.94	19,589.52	2,957.32
Arthur R.P.D.—Luther E. and Luther W. twps.	*4,303.91	2,105.26	2,198.65	160.35
Bala R.P.D.—Medora and Wood twp.	*76,681.45	37,157.88	39,523.57	4,165.73
Barrie R.P.D.—Innisfil, Oro and Vespra twps.	125,209.05	62,604.53	62,604.52	9,640.52
Baysville R.P.D.—Franklin, Macaulay, McLean, Ridout and Sherbourne twps.	71,748.48	35,874.24	35,874.24	2,056.67
Beaumaris R.P.D.—Macaulay, Medora and Wood, Monck and Muskoka twps.	77,737.23	38,868.61	38,868.62	4,531.92
Beaverton R.P.D.—Brock, Georgina, Mara and Thorah twps.	*60,171.79	29,744.37	30,427.42	5,566.05
Beeton R.P.D.—Tecumseth twp.	3,018.23	1,509.11	1,509.12	335.42
Bradford R.P.D.—Gwillimbury W., King and Tecumseth twps.	37,461.98	18,565.93	18,896.05	2,397.68
Bruce R.P.D.—Brant, Carrick, Culross, Greenock and Saugeen twps.	*62,142.55	29,630.08	32,512.47	4,288.57
Buckskin R.P.D.—Matchedash and Medora and Wood twps.	4,036.42	2,018.21	2,018.21	722.74
Cannington R.P.D.—Brock, Eldon and Mariposa twps.	*18,968.85	7,867.35	11,101.50	1,683.88
Chatsworth R.P.D.—Holland twp.	1,497.32	748.66	748.66	456.94
Cookstown R.P.D.—Essa and Innisfil twps.	704.54	352.27	352.27	36.17
Creemore R.P.D.—Nottawasaga, Osprey, Sunnidale and Tossorontio twps.	*46,243.28	22,446.27	23,797.01	2,293.42
Elmvale R.P.D.—Flos, Medonte, Oro and Vespra twps.	39,313.27	19,523.46	19,789.81	2,264.58
Flesherton R.P.D.—Artemesia twp.	* 5,343.55	2,485.01	2,858.54	278.69
Gravenhurst R.P.D.—Muskoka twp.	6,609.40	3,304.70	3,304.70	725.10
Hawkestone R.P.D.—Orillia and Oro twps.	48,799.11	24,399.56	24,399.55	2,010.45
Holstein R.P.D.—Bentinck, Egremont and Normanby twps.	1,900.53	950.26	950.27	.....
Huntsville R.P.D.—Brunel, Chaffey and Franklin twps.	51,177.29	25,588.64	25,588.65	1,748.80
Innisfil R.P.D.—Gwillimbury W. and Innisfil twps.	84,448.91	42,224.46	42,224.45	9,306.23
Lucknow R.P.D.—Kinloss twp.	637.09	318.55	318.54	.....
Mariposa R.P.D.—Brock, Mariposa and Reach twps.	76,632.19	38,316.10	38,316.09	5,190.72
Markdale R.P.D.—Artemesia, Euphrasia, Glenelg and Holland twps.	*30,024.84	14,886.35	15,138.49	1,403.94

NOTE—Items marked \* include portions of transmission lines aggregating \$10,467.46 used for purposes of rural power districts.



## RURAL POWER DISTRICTS

G.B.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment (by in the year ending October 31, 1934.

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,527.45	900.02	771.07	385.54	205.63	6,747.03	7,384.92	637.89	.....
99.93	101.33	86.08	43.04	23.15	513.88	580.69	66.81	.....
3,552.67	1,627.76	1,365.74	682.87	371.90	11,766.67	10,180.93	.....	1,585.74
4,698.60	2,824.09	2,451.01	1,225.50	645.23	21,484.95	20,350.15	.....	1,134.80
1,390.43	1,595.09	1,384.37	692.18	364.43	7,483.17	5,317.59	.....	2,165.58
3,467.53	1,642.72	1,425.70	712.85	375.32	12,156.04	11,970.26	.....	185.78
2,754.76	1,347.32	1,156.72	578.36	307.84	11,711.05	10,520.24	.....	1,190.81
69.63	69.55	60.36	30.18	15.89	581.03	313.29	.....	267.74
1,301.98	869.32	747.87	373.93	198.62	5,889.40	4,639.21	.....	1,250.19
3,117.01	1,426.40	1,180.34	590.17	325.90	10,928.39	11,244.08	315.69	.....
173.02	92.04	79.88	39.94	21.03	1,128.65	957.84	.....	170.81
1,094.75	503.50	372.30	186.15	115.03	3,955.61	4,006.33	50.72	.....
326.57	34.51	29.95	14.98	7.88	870.83	808.90	.....	61.93
11.57	16.23	14.09	7.04	3.71	88.81	128.14	39.33	.....
1,213.38	1,090.98	920.05	460.02	249.26	6,227.11	5,078.72	.....	1,148.39
1,246.92	907.68	782.44	391.22	207.38	5,800.22	6,561.75	761.53	.....
539.75	130.75	106.01	53.00	29.87	1,138.07	754.77	.....	383.30
221.73	124.09	107.70	53.85	28.35	1,260.82	1,058.12	.....	202.70
1,341.13	1,054.16	914.92	457.46	240.85	6,018.97	5,465.39	.....	553.58
7.31	43.65	38.01	19.00	10.01	117.98	48.97	.....	69.01
1,071.97	1,120.81	972.74	486.37	256.07	5,656.76	4,526.75	.....	1,130.01
3,780.66	1,847.51	1,603.44	801.72	422.11	17,761.67	17,636.18	.....	125.49
2.73	14.49	12.74	6.37	3.35	39.68	14.30	.....	25.38
2,376.94	1,755.86	1,523.90	761.95	401.17	12,010.54	14,654.56	2,644.02	.....
1,209.64	668.82	575.42	287.71	152.80	4,298.33	3,742.80	.....	555.53

## GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Meaford R.P.D.—St. Vincent twp.....	1,992.72	996.36	996.36	
Medonte R.P.D.—Baxter and Tay twps.....	18,259.80	9,129.90	9,129.90	733.77
Midland R.P.D.—Tay and Tiny twps.....	17,451.61	8,725.80	8,725.81	760.23
Neustadt R.P.D.—Bentinck twp.....	1,045.12	522.56	522.56	
Nottawasaga R.P.D.—Nottawasaga twp.....	17,301.88	8,650.94	8,650.94	1,146.70
Orangeville R.P.D.—Amaranth, Caledon, Erin and Garafraxa E. twps.....	33,390.82	16,695.41	16,695.41	1,541.42
Owen Sound R.P.D.—Derby, Sarawak and Sydenham twps.....	13,320.04	6,660.02	6,660.02	1,040.73
Port Perry R.P.D.—Cartwright, Manvers, Reach and Scugog twps.....	75,851.14	37,925.57	37,925.57	5,487.86
Ripley R.P.D.—Huron and Kinloss twps.....	*8,447.54	3,990.30	4,457.24	556.37
Sauble R.P.D.—Amabel and Keppel twps.....	7,838.81	3,919.41	3,919.40	780.52
Shelburne R.P.D.—Amaranth, Melancthon and Mulmur twps.....	26,114.43	12,439.14	13,675.29	1,215.72
Sparrow Lake R.P.D.—Matchedash, Morrison, Orillia and Rama twps.....	85,203.53	42,601.77	42,601.76	3,394.72
Tara R.P.D.—Amabel, Arran, Derby and Keppel twps.....	30,552.85	15,276.43	15,276.42	2,192.94
Thornton R.P.D.—Essa twp.....	9,482.55	4,741.28	4,741.27	791.13
Utterson R.P.D.—Cardwell, Humphrey, Medora and Wood, Stephenson and Watt twps.....	*46,743.44	22,486.33	24,257.11	2,143.93
Uxbridge R.P.D.—Brock, Georgina, Reach Scott and Uxbridge twps.....	84,865.89	42,432.94	42,432.95	4,337.98
Wasaga Beach R.P.D.—Flos, Nottawasaga and Sunnidale twps.....	69,565.66		69,565.66	6,529.55
Wroxeter R.P.D.—Howick, Morris and Turnberry twps.....	74,923.78	36,081.47	38,842.31	5,508.87
Total capital.....	1,595,839.33	753,852.43	841,986.90	
Non-operating capital.....	4,290.29	2,145.14	2,145.15	
Grand totals.....	1,600,129.62	755,997.57	844,132.05	102,384.33

NOTE—Items marked \* include portions of transmission lines aggregating \$10,467.46 used for purposes of rural power districts.

## RURAL POWER DISTRICTS

## G.B.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment (by in the year ending October 31, 1934.

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
20.22	45.49	39.71	19.86	10.45	135.73	73.95		61.78
515.70	406.28	352.61	176.30	92.82	2,277.48	1,724.71		552.77
310.31	382.88	332.30	166.15	87.48	2,039.35	1,976.30		63.05
4.22	23.90	20.90	10.45	5.50	64.97	18.64		46.33
506.49	389.05	337.65	168.83	88.89	2,637.61	3,205.09	567.48	
743.92	763.21	662.38	331.19	174.37	4,216.49	3,658.50		557.99
650.62	299.89	260.27	130.14	68.52	2,450.17	2,367.87		82.30
2,529.47	1,704.61	1,479.42	739.71	389.46	12,330.53	12,496.85	166.32	
154.46	205.40	168.93	84.47	46.93	1,216.56	794.21		422.35
932.23	107.76	93.52	46.76	24.62	1,985.41	1,568.49		416.92
1,212.14	628.34	520.61	260.30	143.56	3,980.67	2,242.93		1,737.74
1,847.80	1,850.59	1,606.12	803.06	422.81	9,925.10	9,784.63		140.47
2,158.78	699.75	607.31	303.65	159.87	6,122.30	5,494.47		627.83
148.13	218.45	189.59	94.80	49.92	1,492.02	1,345.67		146.35
1,751.83	1,016.92	847.20	423.61	232.34	6,415.83	6,976.00	560.17	
2,529.88	1,947.60	1,690.31	845.15	444.97	11,795.89	9,858.02		1,937.87
2,790.13	2,705.19	1,173.91	586.96	618.06	14,403.80	17,645.51	3,241.71	
2,862.78	1,782.16	1,491.51	745.76	407.17	12,798.25	13,385.32	587.07	
58,267.17	36,986.15	30,557.10	15,278.55	8,450.52	251,923.82	242,562.04	9,638.74	19,000.52



## GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1934, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1933		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Alliston.....	June, 1918	1,559.57			1,559.57
Arthur.....	Dec., 1916		1,016.59	300.00	
Barrie.....	April, 1913		3,353.18	409.81	
Beaverton.....	Nov., 1914	214.42			214.42
Beeton.....	Aug., 1918	935.76			935.76
Bradford.....	Oct., 1918	1,346.08			1,346.08
Brechin.....	Jan., 1915	326.57			326.57
Cannington.....	Nov., 1914	473.55			473.55
Chatsworth.....	Dec., 1915		81.49	1.31	
Chesley.....	July, 1916	1,902.84			1,902.84
Coldwater.....	Mar., 1913		363.22	363.22	
Collingwood.....	Mar., 1913	520.92			520.92
Cookstown.....	May, 1918	469.49			469.49
Creemore.....	Nov., 1914		21.37	21.37	
Dundalk.....	Dec., 1915	474.36		93.64	568.00
Durham.....	Dec., 1915	1,320.66		33.92	1,354.58
Elmvale.....	June, 1913	541.09			541.09
Elmwood.....	April, 1918	545.45			545.45
Flesherton.....	Dec., 1915	285.81			285.81
Grand Valley.....	Dec., 1916	538.22			538.22
Gravenhurst.....	Nov., 1915		1,058.97	1,058.97	
Hanover.....	Sept., 1916	2,212.53			2,212.53
Holstein.....	May, 1916		2,914.83	410.88	
Huntsville.....	Sept., 1916		2,781.60		
Kincardine.....	Mar., 1921	3,667.17			3,667.17
Kirkfield.....	June, 1920		248.02	209.61	
Lucknow.....	Jan., 1921	1,053.23			1,053.23
Markdale.....	Mar., 1916	532.20			532.20
Meaford.....	Jan., 1924	1,099.69			1,099.69
Midland.....	July, 1911	6,948.24			6,948.24
Mildmay.....	Dec., 1932	915.32			915.32
Mount Forest.....	Dec., 1915	1,358.48			1,358.48
Neustadt.....	Dec., 1918		5,925.01		
Orangeville.....	July, 1916	830.65			830.65
Owen Sound.....	Dec., 1915	10,572.81			10,572.81
Paisley.....	Sept., 1923	247.79			247.79
Penetanguishene.....	July, 1911	2,008.71			2,008.71
Port Elgin.....	Mar., 1931	321.85			321.85
Port McNicoll.....	Jan., 1915		232.86	20.66	
Port Perry.....	Sept., 1922	215.86			215.86
Priceville.....	Mar., 1920	349.67			349.67
Ripley.....	Jan., 1921	376.00			376.00
Rosseau.....	July, 1931	751.50			751.50
Shelburne.....	July, 1916		105.98	105.98	
Southampton.....	Feb., 1931	466.08			466.08

## SYSTEM

## G.B.—CREDIT OR CHARGE

supplied to it to October 31, 1933; the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1934

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1934		Accumulated amount standing as a credit or charge on October 31, 1934	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
27.50		1,174.53		1,202.03	
	36.82	793.57		40.16	
	124.60	10,265.17		7,197.20	
3.50		658.56		662.06	
16.66		328.49		345.15	
23.17		1,118.29		1,141.46	
6.99		91.40		98.39	
7.94		808.89		816.83	
	3.23	270.24		186.83	
32.33		2,989.26		3,021.59	
	6.09	1,164.17		1,158.08	
8.73		612.40		621.13	
10.07		366.17		376.24	
	0.41	175.62		175.21	
8.97		840.18		849.15	
26.96		2,104.50		2,131.46	
8.42		781.39		789.81	
11.12		294.71		305.83	
4.76		325.56		330.32	
9.47		467.40		476.87	
	20.19	2,879.65		2,859.46	
35.40		3,971.18		4,006.58	
	104.34		524.81		3,133.10
	111.26	2,402.98			489.88
48.63		3,567.81		3,616.44	
	3.35		51.37		93.13
17.95		1,067.97		1,085.92	
8.98		949.84		958.82	
18.44		1,959.95		1,978.39	
102.80		12,936.90		13,039.70	
17.75		770.69		788.44	
23.27		1,754.38		1,777.65	
	237.00		1,059.99		7,222.00
16.57		1,569.93		1,586.50	
151.63		17,219.37		17,371.00	
4.24		558.32		562.56	
26.64		2,815.16		2,841.80	
5.50		897.53		903.03	
	9.02	391.49		170.27	
3.78		949.62		953.40	
6.97		127.09		134.06	
7.55		491.76		499.31	
14.10		627.54		641.64	
	2.16	1,399.78		1,397.62	
7.35		1,427.98		1,435.33	

## GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1934, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1933		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Stayner.....	Oct., 1913	470.91			470.91
Sunderland.....	Nov., 1914	200.17		3.51	203.68
Tara.....	Feb., 1918	611.90			611.90
Teeswater.....	Dec., 1920	187.43			187.43
Thornton.....	Nov., 1918	271.29			271.29
Tottenham.....	Oct., 1918	783.06			783.06
Uxbridge.....	Sept., 1922	532.58			532.58
Victoria Harbour.....	July, 1914	356.00			356.00
Walkerton.....	Feb., 1931	1,524.03			1,524.03
Waubashene.....	Dec., 1914	95.17			95.17
Warton.....	May, 1931		331.12	331.12	
Windermere.....	June, 1930	760.79			760.79
Wingham.....	Dec., 1920	301.53			301.53
Woodville.....	Nov., 1914	167.77			167.77
Total—Municipalities.....		51,645.20	18,434.24	3,364.00	51,776.27
RURAL POWER DISTRICTS*					
Alliston R.P.D.....	Nov., 1929	1,861.06			5.52
Arthur R.P.D.....	Dec., 1929		25.29	26.30	
Bala R.P.D.....	Jan., 1930		6,059.01	6,301.37	
Barrie R.P.D.....	Aug., 1923		6,067.85	5,551.07	85.81
Baysville R.P.D.....	July, 1932		5,875.71	3,965.02	
Beaumaris R.P.D.....	June, 1928		1,435.29	1,492.70	53.41
Beaverton R.P.D.....	Oct., 1926		6,690.87	529.96	108.90
Beeton R.P.D.....	Sept., 1926		411.82	219.57	
Bradford R.P.D.....	Aug., 1929		4,114.09	2,330.22	
Bruce R.P.D.....	Oct., 1931		770.28		2.25
Buckskin R.P.D.....	July, 1928		1,117.26		
Cannington R.P.D.....	May, 1924	2,185.37			22.50
Chatsworth R.P.D.....	Dec., 1928	193.71			
Cookstown R.P.D.....	Dec., 1930	93.70			
Creemore R.P.D.....	Dec., 1930		4,859.23	2,735.51	
Elmvale R.P.D.....	Jan., 1924		677.05	49.91	157.78
Flesherton R.P.D.....	Feb., 1922		1,022.64	141.90	
Gravenhurst R.P.D.....	June, 1929	64.43			
Hawkestone R.P.D.....	Aug., 1930		3,798.41	2,463.99	
Holstein R.P.D.....	Mar., 1929		154.16	160.33	1.25
Huntsville R.P.D.....	Aug., 1931		4,344.63	3,133.63	10.93
Innisfil R.P.D.....	Feb., 1928		3,775.01		78.85
Lucknow R.P.D.....	Feb., 1924		103.03	107.15	
Mariposa R.P.D.....	Sept., 1923	6,185.69			
Markdale R.P.D.....	July, 1924		2,214.10	1,258.30	

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.



## SYSTEM

## G.B.—CREDIT OR CHARGE

supplied to it to October 31, 1933; the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1934

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1934		Accumulated amount standing as a credit or charge on October 31, 1934	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8.00		900.54		908.54	
2.81		496.20		499.01	
15.22		565.33		580.55	
3.74		454.71		458.45	
8.15		432.40		440.55	
11.82			276.55		264.73
8.99		1,407.92		1,416.91	
5.59		349.39		354.98	
26.24		2,258.60		2,284.84	
2.67		220.58		223.25	
	5.91	1,425.71		1,419.80	
17.76		476.03		493.79	
5.06		2,150.48		2,155.54	
2.61		102.52		105.13	
842.80	664.38	97,607.83	1,912.72	91,875.06	11,202.84
74.24		637.89		2,567.67	
	1.01	66.81		66.81	
	242.36		1,585.74		1,585.74
	243.58		1,134.80		1,980.97
	235.03		2,165.58		4,311.30
	58.49		185.78		240.27
	269.37		1,190.81		7,729.99
	16.47		267.74		476.46
	164.56		1,250.19		3,198.62
	30.87	315.69			487.71
	44.69		170.81		1,332.76
86.58		50.72		2,300.17	
7.75			61.93	139.53	
3.75		39.33		136.78	
	194.37		1,148.39		3,466.48
	30.59	761.53			53.98
	40.91		383.30		1,304.95
2.58			202.70		135.69
	151.94		553.58		2,039.94
	6.22		69.01		70.31
	174.06		1,130.01		2,526.00
	153.30		125.49		4,132.65
	4.12		25.38		25.38
247.43		2,644.02		9,077.14	
	88.56		555.53		1,599.89

## GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1934, and the accumulated amount standing

Rural power district*	Date commenced operating	Net credit or charge at October 31, 1933		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Meaford R.P.D.....	Oct., 1928		200.14	208.15	
Medonte R.P.D.....	July, 1930		1,913.57	1,189.28	14.14
Midland R.P.D.....	Nov., 1930		1,446.38	1,165.11	14.04
Neustadt R.P.D.....	Nov., 1926		148.08	154.00	
Nottawasaga R.P.D.....	Jan., 1922	1,302.74			
Orangeville R.P.D.....	Aug., 1927		4,682.05	2,400.28	
Owen Sound R.P.D.....	Mar., 1931		661.50	348.36	
Port Perry R.P.D.....	Dec., 1922		5,330.02		
Ripley R.P.D.....	Feb., 1922		1,763.32	772.16	
Sauble R.P.D.....	Oct., 1931		787.50		
Shelburne R.P.D.....	Feb., 1926		3,856.21	2,491.47	1.89
Sparrow Lake R.P.D.....	Oct., 1925		171.55	178.41	62.98
Tara R.P.D.....	Jan., 1925		799.89	831.89	
Thornton R.P.D.....	Aug., 1930		1,353.57	97.54	
Utterson R.P.D.....	June, 1930		1,392.69	1,448.40	0.68
Uxbridge R.P.D.....	Sept., 1925		10,295.93	5,821.23	5.23
Wasaga Beach R.P.D.....	July, 1923	11,228.14			23.21
Wroxeter R.P.D.....	Feb., 1929		4,944.90	3,070.06	
Total—Rural power districts.....		23,114.84	93,263.03	50,643.27	649.37
Total—Municipalities.....		51,645.20	18,434.24	3,364.00	51,776.27
Totals.....		74,760.04	111,697.27	54,007.27	52,425.64

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## GEORGIAN BAY SYSTEM

## Reserve for Renewals—October 31, 1934

Total provision for renewals to October 31, 1933.....	\$1,614,779.69
Deduct:	
Expenditures to October 31, 1933.....	160,559.10
Balance brought forward October 31, 1933.....	\$1,454,220.59
Added during the year ending October 31, 1934:	
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$89,031.78
Amount included in costs of distribution of power within rural power districts.....	30,557.10
Provision against equipment employed in respect of contracts with private companies which purchased power, and against equipment in local distribution systems.....	10,255.23
Minor credits to reserve upon transfer of lines and equipment..	158.86
Interest at 4% per annum on monthly balances at the credit of the account.....	58,168.82
	188,171.79
	\$1,642,392.38
Deduct:	
Expenditures during the year ending October 31, 1934.....	49,560.35
Balance carried forward October 31, 1934.....	\$1,592,832.03

## SYSTEM

## G.B.—CREDIT OR CHARGE

supplied to it to October 31, 1933; the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1934

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1934		Accumulated amount standing as a credit or charge on October 31, 1934	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	8.01		61.78		61.78
	76.89		552.77		1,368.09
	57.80		63.05		416.16
	5.92		46.33		46.33
52.11		567.48		1,922.33	
	187.28		557.99		3,027.04
	26.46		82.30		421.90
	213.20	166.32			5,376.90
	70.53		422.35		1,484.04
	31.50		416.92		1,235.92
	154.24		1,737.74		3,258.61
	8.75		140.47		205.34
	32.00		627.83		627.83
	54.14		146.35		1,456.52
	55.73	560.17		559.47	
	411.97		1,937.87		6,829.77
448.50		3,241.71		14,895.14	
	197.80	587.07			1,485.57
922.94	3,742.72	9,638.74	19,000.52	31,665.04	64,000.89
842.80	664.38	97,607.83	1,912.72	91,875.06	11,202.84
1,765.74	4,407.10	107,246.57	20,913.24	123,540.10	75,203.73

## GEORGIAN BAY SYSTEM

## Reserve for Obsolescence and Contingencies—October 31, 1934

Balance brought forward October 31, 1933..... \$429,836.32

Added during the year ending October 31, 1934:

Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them..... \$24,988.45

Amounts included in the costs of distribution of power within rural power districts..... 15,278.55

Provision against equipment employed in respect of contracts with private companies which purchased power and against local distribution systems..... 3,303.17

Share of profits on sale of securities in which a portion of the Reserve funds of the Commission stood invested..... 1,456.69

Commission's share of American and Sterling exchange (net credit) on the transfer of funds to New York and London by the Province of Ontario to meet capital retirements, inclusive of adjustments of amounts overcharged the Commission in years 1932 and 1933..... 7,006.26

NOTE—Above amount is exclusive of exchange on interest coupons.

Interest at 4% per annum on monthly balances at the credit of the account..... 17,193.45

69,226.57

\$499,062.89

Deduct:

Contingencies met with during the year ending October 31, 1934..... 2,254.75

Balance carried forward October 31, 1934..... \$496,808.14



G.B.—SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to  
October 31, 1934

Municipality	Period of years ending Oct. 31, 1934	Amount	Municipality	Period of years ending Oct. 31, 1934	Amount
		\$ c.			\$ c.
Alliston.....	11 years	12,801.88	Stayner.....	16 years	9,696.14
Arthur.....	13 "	11,941.01	Sunderland.....	15 "	6,707.68
Barrie.....	16 "	82,793.94	Tara.....	11 "	5,155.34
Beaverton.....	15 "	13,313.97	Teeswater.....	10 "	7,178.07
Beeton.....	11 "	9,678.86	Thornton.....	11 "	1,994.06
Bradford.....	11 "	10,737.95	Tottenham.....	11 "	6,276.06
Brechin.....	15 "	5,143.14	Uxbridge.....	10 "	9,595.22
Cannington.....	15 "	10,006.32	Victoria Harbour.....	15 "	4,051.13
Chatsworth.....	14 "	2,539.52	Walkerton.....	4 "	5,485.64
Chesley.....	13 "	21,170.73	Waubauskene.....	15 "	2,305.71
Coldwater.....	16 "	8,211.40	Wiarton.....	4 "	4,406.07
Collingwood.....	16 "	88,206.95	Windermere.....	5 "	938.52
Cookstown.....	11 "	3,019.34	Wingham.....	10 "	20,605.32
Creemore.....	15 "	7,381.27	Woodville.....	15 "	6,721.22
Dundalk.....	14 "	7,148.60			
Durham.....	14 "	19,769.43			
Elmvale.....	16 "	9,812.03			
Elmwood.....	11 "	2,324.56	RURAL POWER DISTRICTS*		
Flesherton.....	14 "	4,056.95	Alliston R.P.D.....	5 years	2,542.23
Grand Valley.....	13 "	7,271.13	Arthur R.P.D.....	5 "	174.08
Gravenhurst.....	14 "	13,959.51	Bala R.P.D.....	5 "	2,869.60
Hanover.....	13 "	50,548.25	Barrie R.P.D.....	12 "	8,307.19
Holstein.....	13 "	2,325.71	Baysville R.P.D.....	3 "	1,332.97
Huntsville.....	13 "	34,460.79	Beaumaris R.P.D.....	7 "	4,472.92
Kincardine.....	10 "	21,703.66	Beaverton R.P.D.....	9 "	3,500.75
Kirkfield.....	10 "	1,931.25	Beeton R.P.D.....	9 "	131.18
Lucknow.....	10 "	10,495.63	Bradford R.P.D.....	6 "	1,404.45
Markdale.....	13 "	5,733.33	Bruce R.P.D.....	4 "	2,270.63
Meaford.....	10 "	14,752.42	Buckskin R.P.D.....	7 "	610.97
Midland.....	16 "	137,711.90	Cannington R.P.D.....	11 "	3,118.76
Mildmay.....	2 "	550.29	Chatsworth R.P.D.....	6 "	320.78
Mount Forest.....	14 "	18,334.63	Cookstown R.P.D.....	4 "	30.03
Neustadt.....	11 "	6,056.57	Creemore R.P.D.....	4 "	1,532.03
Orangeville.....	13 "	24,348.09	Elmvale R.P.D.....	11 "	2,356.69
Owen Sound.....	14 "	115,170.28	Flesherton R.P.D.....	13 "	556.54
Paisley.....	10 "	6,068.38	Gravenhurst R.P.D.....	6 "	651.59
Penetanguishene.....	18 "	39,550.40	Hawkestone R.P.D.....	5 "	1,145.64
Port Elgin.....	4 "	2,772.37	Holstein R.P.D.....	6 "	34.82
Port McNicoll.....	15 "	3,726.13	Huntsville R.P.D.....	4 "	1,179.28
Port Perry.....	10 "	8,939.00	Innisfil R.P.D.....	7 "	6,277.14
Priceville.....	10 "	966.59	Lucknow R.P.D.....	9 "	33.95
Ripley.....	10 "	4,390.87	Mariposa R.P.D.....	12 "	7,911.98
Rosseau.....	4 "	1,149.44	Markdale R.P.D.....	11 "	1,032.84
Shelburne.....	13 "	11,269.10	Meaford R.P.D.....	6 "	53.89
Southampton.....	4 "	2,790.45			

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## GEORGIAN BAY SYSTEM

## G.B.—SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1934

Rural power district*	Period of years ending Oct. 31, 1934	Amount	Rural power district*	Period of years ending Oct. 31, 1934	Amount
		\$ c.			\$ c.
Medonte R.P.D.....	5 years	571.26	Tara R.P.D.....	10 years	2,382.55
Midland R.P.D.....	4 "	642.95	Thornton R.P.D.....	5 "	554.06
Neustadt R.P.D.....	8 "	35.44	Utterson R.P.D.....	5 "	1,792.37
Nottawasaga R.P.D.....	13 "	2,661.68	Uxbridge R.P.D.....	10 "	4,726.82
Orangeville R.P.D.....	8 "	1,871.74	Wasaga Beach R.P.D.....	12 "	8,786.41
Owen Sound R.P.D.....	4 "	369.53	Wroxeter R.P.D.....	6 "	4,804.22
Port Perry R.P.D.....	12 "	4,599.50			
Ripley R.P.D.....	9 "	418.28			
Sauble R.P.D.....	4 "	325.51			
			Totals.....		\$1,062,474.58
Shelburne R.P.D.....	9 "	1,105.93			
Sparrow Lake R.P.D.....	10 "	4,823.20			

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## GEORGIAN BAY SYSTEM

## Reserve for Sinking Fund—October 31, 1934

Total provision for sinking fund to October 31, 1933.....	\$936,659.56
Provided in the year ending October 31, 1934:	
By charges included in the cost of power delivered to municipalities and rural power districts.....	\$71,847.17
By charges included in the costs of distribution of power within rural power districts.....	8,450.52
By charges against contracts with private companies which purchased power and local distribution systems.....	8,050.95
Interest at 4% per annum on the amount standing at the credit of the reserve accounts.....	37,466.38
	125,815.02
Total.....	\$1,062,474.58

## GEORGIAN BAY SYSTEM—RURAL LINES

Statement showing Interest, Sinking Fund, Renewals and Contingencies charged by the Commission to the Municipalities which operate the respective rural lines for the year ending October 31, 1934

Operated by	Capital cost	Interest	Sinking fund	Renewals	Contingencies	Total interest, sinking fund, renewals and contingencies charged
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Brechin.....	922.02	48.22	16.60	18.44	9.22	92.48
Flesherton.....	1,885.41	105.77	33.94	37.71	18.85	196.27
Totals.....	2,807.43	153.99	50.54	56.15	28.07	288.75

## GEORGIAN BAY SYSTEM—RURAL LINES

## Reserve for Renewals—October 31, 1934

Total provision for renewals to October 31, 1933.....		\$517.15
Added during the year ending October 31, 1934:		
By charges against the municipalities which operate the lines.....	\$56.15	
Interest at 4% per annum on the monthly balances at the credit of the account.....	20.69	
		<u>76.84</u>
Balance carried forward October 31, 1934.....		<u>\$593.99</u>

## Reserve for Obsolescence and Contingencies—October 31, 1934

Balance brought forward October 31, 1933.....		\$222.36
Added during the year ending October 31, 1934:		
By charges against the municipalities which operate the lines.....	\$28.07	
Interest at 4% per annum on the monthly balances at the credit of the account.....	8.89	
		<u>36.96</u>
Balance carried forward October 31, 1934.....		<u>\$259.32</u>

EASTERN ONTARIO  
Operating Account for Year

## COSTS OF OPERATION AS PROVIDED UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased.....	\$833,980.26
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Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:

Generation, transmission and distribution equipment.....	\$602,218.79	
Rural power districts.....	122,170.71	
		<u>724,389.50</u>

Interest (including exchange thereon) on capital investment in:

Generation, transmission and distribution equipment.....	\$ 831,133.35	
Rural power districts.....	82,273.43	
		<u>913,406.78</u>

Provision for renewals of:

Generation, transmission and distribution equipment.....	\$177,291.97	
Rural power districts.....	65,611.42	
		<u>242,903.39</u>

Provision for obsolescence and contingencies in respect of:

Generation, transmission and distribution equipment.....	\$52,118.37	
Rural power districts.....	32,805.71	
		<u>84,924.08</u>

Provision for sinking funds:

By charges included in the cost of power delivered to municipalities and rural power districts.....	\$109,931.07	
By charges against contracts with private companies which purchased power and local distribution systems.....	47,341.45	
By charges included in the cost of distribution of power within rural power districts.....	17,540.50	
		<u>174,813.02</u>
		<u>\$2,974,417.03</u>



## GEORGIAN BAY SYSTEM—RURAL LINES

Statement showing the total Sinking Fund paid in respect of each line, together with interest allowed thereon to October 31, 1934

Lines operated by	Period of years ending October 31, 1934	Amount
Brechin.....	16 years	\$ 332.55
Flesherton.....	17 "	598.26
Total.....		930.81

## Reserve for Sinking Fund

Total provision for sinking fund to October 31, 1933.....	\$846.41
Provided in year ending October 31, 1934—	
By charges against municipalities which operate the lines.....	\$50.54
Interest at 4% per annum on amounts standing at the credit of the reserve accounts.....	33.86
	84.40
Total.....	\$930.81

## SYSTEM

Ending October 31, 1934

## REVENUE FOR PERIOD

Amounts received from (or billed against) municipalities at interim monthly rates.....	\$1,932,028.06
Amounts received from (or billed against) customers in rural power districts.....	479,968.71
Power sold to private companies.....	584,938.02
Amounts received from customers in local electric distribution systems.....	24,500.63
Power supplied to Pulp Mill at Campbellford.....	46,514.03
Amounts received from customers of the Gas Works.....	16,059.14
	\$3,084,008.59

Add:

Amounts due by certain municipalities, being the difference between the sums received (or billed) at interim monthly rates and the amounts charged—following annual adjust- ment—in respect of power supplied in the year.....	\$6,397.97
Amounts due by municipalities comprising certain rural power districts, being the difference between the sums received from (or billed against) customers therein and the amounts charged to such districts—following annual adjustment— in respect of power supplied in the year.....	29,488.03
	35,886.00

Deduct:

Amounts received from (or billed against) certain muni- cipalities at interim monthly rates in excess of the amounts charged—following annual adjustment—in respect of power supplied in the year.....	\$140,252.33
Amounts received from (or billed against) customers in certain rural power districts in excess of the amounts charged to such districts—following annual adjustment.....	5,340.51
	145,592.84

Revenue..... \$2,974,301.75

Add:

Amount charged against the obsolescence and contingency reserve, which amount comprises:	
(a) Loss on operation of local gas works.....	\$4,064.39
(b) Profit from power sold to customers on local electric distribution systems owned by the Com- mission.....	3,949.11
	115.28
	\$2,974,417.03

## EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the cost—under received by the Commission from each Municipality on account of such cost; pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1934	To Oct. 31 1934				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Alexandria.....	66.00	66.00	94,766.11	201.6	1,647.57	2,717.36	4,517.16
Apple Hill.....	54.00	57.00	11,075.92	29.0	237.00	352.95	527.92
Athens.....	63.00	60.00	29,113.41	74.3	607.22	718.33	1,420.96
Bath.....	95.00	80.00	18,755.75	29.1	237.82	400.48	924.04
Belleville.....	38.00	37.00	773,209.66	3,767.8	30,792.30	27,323.59	37,851.18
Bloomfield.....	61.00	61.00	28,177.59	73.3	599.04	959.58	1,376.31
Bowmanville.....	41.50	41.50	387,825.60	1,659.1	13,558.97	14,701.09	19,108.38
Brighton.....	46.00	43.00	58,209.26	239.5	1,957.31	2,089.95	2,853.53
Brockville.....	34.00	34.00	423,336.88	2,362.4	19,306.72	13,360.59	20,280.36
Cardinal.....	40.00	42.00	28,035.67	134.4	1,098.38	1,111.52	1,373.03
Carleton Place.....	37.00	37.00	237,734.51	1,129.3	9,229.19	6,184.44	11,510.29
Chesterville.....	44.00	44.00	45,024.74	172.6	1,410.57	1,972.66	2,112.25
Cobourg.....	41.00	41.00	305,503.00	1,349.5	11,028.77	12,398.10	15,057.29
Colborne.....	39.79	41.00	29,635.44	117.1	957.00	971.11	1,463.26
Deseronto.....	54.50	56.00	45,138.59	121.2	990.51	1,343.94	2,218.40
Finch.....	65.00	65.00	19,998.28	47.4	387.38	676.01	975.53
Hastings.....	55.00	52.00	25,668.40	74.6	609.67	807.74	1,263.79
Havelock.....	55.00	53.00	47,381.26	125.7	1,027.28	1,368.22	2,305.92
Kemptville.....	42.50	42.50	69,968.08	262.1	2,142.01	1,998.34	3,397.80
Lakefield.....	53.50	48.00	62,379.02	203.9	1,666.37	1,963.98	3,053.08
Lanark.....	50.00	50.00	21,812.41	68.3	558.18	555.79	1,058.93
Lancaster.....	97.00	90.00	26,840.87	35.5	290.12	654.42	1,293.15
Lindsay.....	44.00	43.00	427,582.66	1,732.7	14,160.47	19,127.36	20,919.18
Madoc.....	50.00	50.00	38,942.94	139.8	1,142.51	1,755.65	1,908.73
Marmora.....	53.00	52.00	26,774.58	88.9	726.53	1,162.51	1,297.66
Martintown.....	57.00	52.00	5,890.27	20.2	165.08	293.90	280.73
Maxville.....	62.00	66.00	31,985.83	72.8	594.96	915.78	1,528.06
Napanee.....	40.00	40.00	206,793.52	926.0	7,567.72	8,125.48	10,133.91
Norwood.....	41.00	43.00	23,121.23	92.2	753.50	987.29	1,126.01
Oshawa.....	41.00	35.00	2,230,725.96	9,377.7	76,639.14	76,432.86	109,125.30
Ottawa.....	26.90	26.90	771,735.19	6,758.7	55,235.43	27,452.06	37,912.75
Ottawa.....			964.71	18,928.5	208,213.50	352.82	47.66
Perth.....	35.00	35.00	217,945.42	1,137.4	9,295.39	5,814.70	10,570.53
Peterborough.....	32.00	33.00	1,168,401.16	6,058.5	49,513.02	37,706.01	57,041.60
Pictou.....	50.00	48.00	264,629.68	820.9	6,708.80	8,905.03	12,946.86
Port Hope.....	43.20	42.00	260,378.90	1,161.0	9,488.26	11,295.02	12,763.03
Prescott.....	34.00	33.00	126,682.86	755.4	6,173.50	4,884.42	6,072.94
Richmond.....	55.00	55.00	18,234.00	45.5	371.85	501.45	895.79
Russell.....	66.00	64.00	19,460.21	43.8	357.95	751.27	942.15
Smiths Falls.....	32.00	32.00	261,544.25	1,608.0	13,141.38	8,047.54	12,617.26

## SYSTEM

## E.O.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1934

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,608.55	294.88	962.93	590.29	12,338.74	13,306.20	967.46	.....
179.93	41.41	111.43	84.91	1,535.55	1,634.34	98.79	.....
483.92	95.15	297.55	217.55	3,840.68	4,499.57	658.89	.....
310.56	54.74	194.14	85.20	2,206.98	2,399.10	192.12	.....
7,107.87	2,503.94	7,708.18	11,032.19	124,319.25	140,081.80	15,762.55	.....
401.01	86.19	288.28	214.62	3,925.03	4,470.73	545.70	.....
4,079.12	1,226.29	3,893.99	4,857.88	61,425.72	68,853.99	7,428.27	.....
633.23	199.19	585.48	701.26	9,019.95	10,442.24	1,422.29	.....
5,335.71	1,604.38	4,168.77	6,917.15	70,973.68	80,322.41	9,348.73	.....
382.77	118.00	278.88	393.53	4,756.11	5,599.98	843.87	.....
3,301.50	894.15	2,375.51	3,306.61	36,801.69	41,783.53	4,981.84	.....
671.98	163.97	453.12	505.38	7,289.93	7,592.17	302.24	.....
3,118.91	996.38	3,062.55	3,951.36	49,613.36	55,328.13	5,714.77	.....
333.17	102.85	298.65	342.87	4,468.91	4,775.15	306.24	.....
633.96	165.59	461.36	354.88	6,168.64	6,757.08	588.44	.....
337.22	65.52	204.82	138.79	2,785.27	3,080.42	295.15	.....
347.99	83.76	261.74	218.43	3,593.12	3,915.96	322.84	.....
668.96	151.45	484.52	368.05	6,374.40	6,713.96	339.56	.....
1,062.09	249.30	707.10	767.43	10,324.07	11,139.55	815.48	.....
795.52	194.67	633.47	597.02	8,904.11	10,002.03	1,097.92	.....
348.37	78.43	221.95	199.98	3,021.63	3,415.37	393.74	.....
487.71	80.48	277.21	103.94	3,187.03	3,249.17	62.14	.....
4,710.21	1,321.88	4,303.73	5,073.38	69,616.21	74,823.34	5,207.13	.....
468.60	126.43	393.86	409.34	6,205.12	6,989.55	784.43	.....
333.39	95.05	269.10	260.30	4,144.54	4,636.73	492.19	.....
89.87	21.85	58.94	59.15	969.52	1,069.11	99.59	.....
535.91	105.11	324.05	213.16	4,217.03	4,750.06	533.03	.....
2,082.91	678.23	2,071.33	2,711.35	33,370.93	37,038.97	3,668.04	.....
258.02	82.01	232.90	269.96	3,709.69	3,926.59	216.90	.....
23,826.66	6,913.70	22,415.47	27,458.09	342,811.22	336,413.25	6,397.97	.....
6,545.62	3,260.72	7,359.76	19,789.68	157,556.02	181,808.55	24,252.53	.....
19.30	4.82	10.16	.....	208,648.26	208,648.26	.....	.....
2,895.29	841.89	2,166.22	3,330.33	34,914.35	39,809.26	4,894.91	.....
9,936.17	3,473.91	11,608.41	17,739.41	187,018.53	198,821.41	11,802.88	.....
3,470.80	790.89	2,691.43	2,403.61	37,917.42	39,697.53	1,780.11	.....
2,634.23	840.73	2,608.97	3,399.43	43,029.67	49,012.76	5,983.09	.....
1,530.59	495.34	1,240.59	2,211.83	22,609.21	25,049.00	2,439.79	.....
304.85	58.10	186.85	133.22	2,452.11	2,500.18	48.07	.....
331.21	63.27	199.60	128.24	2,773.69	2,819.17	45.48	.....
3,161.74	1,043.63	2,572.05	4,708.26	45,291.86	51,454.36	6,162.50	.....



## EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the cost—under received by the Commission from each Municipality on account of such cost; pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1934	To Oct. 31 1934				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Stirling.....	34.50	34.50	40,861.21	223.6	1,827.37	1,543.91	2,001.44
Trenton.....	32.20	32.00	472,248.94	2,740.6	22,397.52	13,733.10	23,262.86
Tweed.....	58.00	63.00	59,303.50	152.8	1,248.75	2,491.60	2,915.10
Warkworth.....	57.00	53.00	18,662.64	57.5	469.92	693.45	913.11
Wellington.....	49.00	47.00	46,305.84	154.8	1,265.10	1,532.90	2,263.84
Westport.....	85.00	80.00	37,696.38	61.4	501.79	736.64	1,856.40
Whitby.....	40.00	40.00	224,717.80	942.8	7,705.02	7,487.16	10,984.07
Williamsburg.....	41.00	40.00	27,991.01	152.3	1,244.67	1,309.89	1,363.85
Winchester.....	42.00	40.00	51,028.13	227.0	1,855.15	1,885.03	2,447.19
RURAL POWER DISTRICTS							
Alexandria R.P.D.—Hawkesbury E. and Lochiel twps.....			14,179.99	29.1	237.82	550.09	685.93
Arnprior R.P.D.—Fitzroy twp.....					1,185.98		
Belleville R.P.D.—Huntingdon, Sidney, Thurlow and Tyendinaga twps.....			62,021.46	294.5	2,406.80	2,058.49	3,019.35
Bowmanville R.P.D.—Darlington twp.....			25,098.93	104.7	855.66	929.65	1,228.58
Brighton R.P.D.—Brighton, Cramahe and Murray twps.....			5,541.43	22.8	186.33	179.37	270.80
Brockville R.P.D.—Augusta, Elizabethtown, Escott Front, Leeds and Lansdowne Front, Leeds and Lansdowne Rear, Yonge and Escott Rear and Yonge Front twps.....			56,938.53	266.8	2,180.42	1,776.65	2,749.37
Campbellford R.P.D.—Rawdon and Seymour twps.....			12,285.36	64.0	523.04	329.54	595.30
Carleton Place R.P.D.—Ramsay twp.....					21.46		
Chesterville R.P.D.—Cambridge, Finch, Osnabruck, Russell, Williamsburg and Winchester twps.....			54,262.54	175.7	1,435.90	1,782.47	2,633.00
Cobourg R.P.D.—Alnwick, Haldimand, Hamilton and Hope twps.....			55,531.00	236.2	1,930.34	1,684.51	2,695.13
Colborne R.P.D.—Cramahe and Haldimand twps.....			27,479.39	103.4	845.03	821.44	1,343.41
Fenelon Falls R.P.D.—Bexley, Fenelon, Laxton, Digby and Longford, Somerville and Verulam twps.....			13,483.31	45.2	369.40	574.31	661.26
Iroquois R.P.D.—Gower S., Matilda, Mountain, Oxford, Williamsburg and Winchester twps.....			53,512.06	380.0	3,105.55	1,793.87	2,594.95

## SYSTEM

## E.O.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1934

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
321.31	123.64	404.53	654.70	6,876.90	7,714.15	837.25	.....
3,369.24	1,415.36	4,658.59	8,024.53	76,861.20	87,800.33	10,939.13	.....
847.19	178.03	606.88	447.40	8,734.95	9,489.69	754.74	.....
245.78	60.97	189.93	168.36	2,741.52	3,091.36	349.84	.....
582.84	146.01	469.80	453.26	6,713.75	7,337.23	623.48	.....
674.64	125.14	389.85	179.78	4,464.24	4,968.31	504.07	.....
2,404.64	662.31	2,258.42	2,760.53	34,262.15	37,713.30	3,451.15	.....
358.17	112.99	276.23	445.94	5,111.74	6,119.18	1,007.44	.....
720.02	196.24	509.73	664.66	8,278.02	9,163.55	885.53	.....
242.21	45.07	144.27	85.21	1,990.60	1,990.60	see page 241	.....
.....	.....	.....	.....	1,185.98	1,185.98	“	“
587.29	203.54	619.17	862.30	9,756.94	9,756.94	“	“
269.91	80.51	252.31	306.56	3,923.18	3,923.18	“	“
60.27	18.96	55.73	66.76	838.22	838.22	“	“
789.51	213.55	569.22	781.20	9,059.92	9,059.92	“	“
103.82	39.43	122.02	187.39	1,900.54	1,900.54	“	“
.....	.....	.....	.....	21.46	21.46	.....	.....
852.66	192.80	550.02	514.45	7,961.30	7,961.30	“	“
587.08	184.49	557.71	691.60	8,330.86	8,330.86	“	“
320.40	97.37	277.53	302.76	4,007.94	4,007.94	“	“
169.46	45.55	136.79	132.35	2,089.12	2,089.12	“	“
567.14	208.21	517.29	1,112.65	9,899.66	9,899.66	“	“

## EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the cost—under received by the Commission from each Municipality on account of such cost; pality upon ascertainment (by annual adjustment) of the actual cost

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
Kemptville R.P.D.—Oxford twp....	5,326.42	18.7	152.83	141.07	261.11
Kingston R.P.D.—Bedford, Ernestown, Hinchinbrooke, Kingston, Leeds and Lansdowne Front, Loughborough, Oso, Pittsburgh and Portland twps.....	76,289.48	304.9	3,518.29	3,632.06	3,722.15
Lakefield R.P.D.—Burleigh and Anstruther, Douro, Harvey and Smith twps.....	9,758.49	36.1	295.03	300.29	478.03
Lindsay R.P.D.—Fenelon, Ops and Verulam twps.....	6,671.33	24.4	199.41	260.05	327.38
Martintown R.P.D.—Charlottenburg and Lancaster twps.....	14,237.91	50.5	412.71	389.00	667.95
Maxville R.P.D.—Caledonia, Kenyon, Plantagenet N., Plantagenet S. and Roxborough twps.....	61,985.13	146.7	1,198.91	1,414.34	2,986.56
Millbrook R.P.D.—Cavan, Manvers and Monaghan S. twps.....	12,180.50	39.2	320.36	572.89	596.14
Napanee R.P.D.—Camden E., Ernestown, Fredericksburg N., Fredericksburg S., Hungerford, Portland, Richmond, Sheffield and Tyendinaga twps.....	54,685.63	199.4	1,629.59	1,558.39	2,668.87
Nepean R.P.D.—Clarence, Cumberland, Gloucester, Goulburn, Gower N., March, Nepean and Osgoode twps.....	80,317.55	575.5	4,703.27	2,442.57	3,893.38
Newcastle R.P.D.—Clarke, Darlington and Manvers twps.....	17,904.75	64.1	523.86	671.52	873.94
Norwood R.P.D.—Asphodel, Belmont and Methuen, Dummer and Seymour twps.....	12,497.41	35.7	291.75	343.05	612.70
Omeme R.P.D.—Emily and Ops twps.....	1,195.73	3.9	31.87	44.01	58.51
Oshawa R.P.D.—Darlington, Pickering, Uxbridge, Whitby and Whitby E. twps.....	152,674.09	630.9	5,156.02	6,277.71	7,438.00
Perth R.P.D.—Bathurst, Burgess N., Dalhousie and Sherbrooke N., Drummond, Elmsley N., and Elmsley S., twps.....	8,680.34	32.4	371.26	288.26	364.13
Peterborough R.P.D.—Cavan, Douro, Monaghan N., Monaghan S., Otonabee and Smith twps.....	96,282.15	472.0	3,857.42	3,551.94	4,681.55
Prescott R.P.D.—Augusta, Edwardsburg and Matilda twps.....	19,648.47	107.9	1,069.09	929.24	928.66



## SYSTEM

## E.O.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1934

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
82.47	19.46	53.96	54.75	765.65	765.65	see page	241
849.57	245.76	768.23	892.75	13,628.81	13,628.81	"	"
115.12	29.73	98.62	105.70	1,422.52	1,422.52	"	"
79.34	21.83	67.45	71.44	1,026.90	1,026.90	"	"
214.90	53.03	142.21	147.86	2,027.66	2,027.66	"	"
1,030.20	211.12	626.81	429.53	7,897.47	7,897.47	"	"
156.70	42.56	123.77	114.78	1,927.20	1,927.20	see page	243
651.51	180.58	552.91	583.85	7,825.70	7,825.70	"	"
849.44	347.31	780.46	1,685.08	14,701.51	14,701.51	"	"
216.02	61.20	181.20	187.69	2,715.43	2,715.43	"	"
170.79	41.57	127.51	104.53	1,691.90	1,691.90	"	"
15.25	4.19	12.14	11.42	177.39	177.39	"	"
1,654.98	468.96	1,535.43	1,847.29	24,378.39	24,378.39	"	"
106.72	30.04	74.48	94.86	1,329.75	1,329.75	"	"
879.23	296.39	959.71	1,382.02	15,608.26	15,608.26	"	"
249.70	78.53	193.56	315.93	3,764.71	3,764.71	"	"

## EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the cost—under received by the Commission from each Municipality on account of such cost; pality upon ascertainment (by annual adjustment) of the actual cost

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
Renfrew R.P.D.—Admaston and Horton twps.....			314.02		
Smiths Falls R.P.D.—Bastard and Burgess S., Crosby S., Kitley, Montague and Wolford twps.....	36,044.61	143.9	1,176.02	783.10	1,752.16
Stirling R.P.D.—Rawdon and Sidney twps.....	8,699.60	43.6	356.32	387.12	421.30
Trenton R.P.D.—Brighton, Murray and Sidney twps.....	35,092.18	187.9	1,535.61	1,356.34	1,720.36
Warkworth R.P.D.—Percy twp....	709.69	3.0	24.52	31.11	34.53
Wellington R.P.D. — Ameliasburg, Athol, Hallowell, Hillier and Murray twps.....	51,559.34	169.3	1,383.60	1,472.11	2,514.86
Williamsburg R.P.D.—Matilda and Williamsburg twps.....	9,465.10	51.5	420.88	359.68	460.38
Totals—Municipalities.....	9,870,199.27	66,758.5	599,103.66	340,555.02	482,080.57
Totals—Rural power districts.....	1,152,239.90	5,063.9	44,226.37	39,686.24	55,939.73
Totals—Companies.....	5,700,389.29	21,279.7	173,908.07	184,891.37	269,379.17
Totals—Local electric distribution systems.....	136,924.48	274.0	2,239.26	8,419.47	6,766.70
Totals—Local gas distribution system.....	26,466.13			18,816.31	1,307.22
Totals—Pulp Mill.....	316,979.81	1,774.6	14,502.90	9,850.38	15,659.96
	17,203,198.88				
Non-operating capital.....	21,168.85				
Campbellford Pulp Mill.....	52,559.93				
Grand totals.....	17,276,927.66	95,150.7	833,980.26	602,218.79	831,133.35

## SYSTEM

## E.O.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1934

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
				314.02	314.02	see page	243
535.25	150.62	363.02	421.34	5,181.51	5,181.51	"	"
77.28	27.76	86.58	127.66	1,484.02	1,484.02	"	"
285.28	110.75	347.98	550.17	5,906.49	5,906.49	"	"
7.55	2.51	7.13	8.78	116.13	116.13	"	"
655.74	167.40	523.44	495.71	7,212.86	7,212.86	"	"
121.12	38.21	93.40	150.79	1,644.46	1,644.46	"	"
105,289.25	32,688.97	98,409.01	140,047.22	1,798,173.70	1,932,028.06	140,252.33	6,397.97
13,553.91	3,958.99	11,522.06	14,827.16	183,714.46	183,714.46		
54,044.25	14,227.80	43,361.74	(154,874.38)	584,938.02	584,938.02		
2,007.02	269.57	849.50		20,551.52	24,500.63	*3,949.11	
				20,123.53	16,059.14		4,064.39*
2,397.54	973.04	3,130.21		46,514.03	46,514.03		
177,291.97	52,118.37	157,272.52		2,654,015.26	2,787,754.34		

\* Written off to contingencies reserve.



## EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Alexandria R.P.D.—Hawkesbury E. and Lochiel twps.....	27,788.56	13,894.28	13,894.28	1,990.60
Arnprior R.P.D.—Fitzroy twp.....	12,709.26	6,111.00	6,598.26	1,185.98
Belleville R.P.D.—Huntingdon, Sidney, Thurlow and Tyendinaga twps.....	150,108.21	74,375.14	75,733.07	9,756.94
Bowmanville R.P.D.—Darlington twp. ....	41,409.79	20,704.89	20,704.90	3,923.18
Brighton R.P.D.—Brighton, Cramahe and Murray twps.....	15,292.75	7,646.38	7,646.37	838.22
Brockville R.P.D.—Augusta, Elizabethtown, Escott Front, Leeds and Lansdowne Front, Leeds and Lansdowne Rear, Yonge and Escott Rear and Yonge Front twps.....	*229,754.33	112,684.53	117,069.80	9,059.92
Campbellford R.P.D.—Rawdon and Seymour twps.....	36,562.64	18,281.32	18,281.32	1,900.54
Carleton Place R.P.D.—Ramsay twp.....	897.79	448.89	448.90	21.46
Chesterville R.P.D.—Cambridge, Finch, Osnabrock, Russell, Williamsburg and Winchester twps.....	*95,818.12	46,143.14	49,674.98	7,961.30
Cobourg R.P.D.—Alnwick, Haldimand, Hamilton and Hope twps.....	190,863.32	94,695.45	96,167.87	8,330.86
Colborne R.P.D.—Cramahe and Haldimand twps.....	58,826.08	29,413.04	29,413.04	4,007.94
Fenelon Falls R.P.D.—Bexley, Fenelon, Laxton, Digby and Longford, Somerville and Verulam twps.....	51,307.17	25,229.41	26,077.76	2,089.12
Iroquois R.P.D.—Gower S., Matilda, Mountain, Oxford, Williamsburg and Winchester twps.....	176,712.72	88,013.01	88,699.71	9,899.66
Kemptville R.P.D.—Oxford twp.....	11,338.27	5,522.31	5,815.96	765.65
Kingston R.P.D.—Bedford, Ernestown, Hinchinbrooke, Kingston, Leeds and Lansdowne Front, Loughborough, Oso, Pitts- burgh and Portland twps.....	266,646.40	129,277.00	137,369.40	13,628.81
Lakefield R.P.D.—Burleigh and Anstruther, Douro, Harvey and Smith twps.....	*52,876.60	26,327.63	26,548.97	1,422.52
Lindsay R.P.D.—Fenelon, Ops and Verulam twps.....	41,161.85	20,580.92	20,580.93	1,026.90
Martintown R.P.D.—Charlottenburg and Lancaster twps.....	52,739.02	26,369.51	26,369.51	2,027.66
Maxville R.P.D.—Caledonia, Kenyon, Plantagenet N., Plantagenet S. and Roxborough twps.....	118,972.75	59,486.38	59,486.37	7,897.47

NOTE—Items marked \* include portions of transmission lines aggregating \$22,904.51 used for purposes of rural power districts.

## RURAL POWER DISTRICTS

## E.O.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1934

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,004.15	680.53	551.13	275.56	145.08	4,647.05	3,761.55	.....	885.50
478.73	324.79	254.19	127.09	69.48	2,440.26	2,559.79	119.53	.....
4,908.01	3,709.18	2,976.71	1,488.36	790.77	23,629.97	26,465.67	2,835.70	.....
1,057.19	1,020.46	826.42	413.21	217.55	7,458.01	7,768.78	310.77	.....
601.34	365.31	295.85	147.92	77.88	2,326.52	2,531.78	205.26	.....
9,127.18	5,700.53	4,528.87	2,264.43	1,215.31	31,896.24	32,135.30	239.06	.....
1,016.82	901.38	729.98	364.99	192.17	5,105.88	4,253.87	.....	852.01
4.95	22.12	17.95	8.98	4.73	80.19	60.54	.....	19.65
5,406.17	2,438.93	1,904.53	952.27	519.96	19,183.16	16,014.19	.....	3,168.97
4,883.74	4,692.08	3,770.43	1,885.21	1,000.32	24,562.64	23,769.11	.....	793.53
2,800.25	1,377.66	1,115.70	557.85	293.71	10,153.11	8,590.95	.....	1,562.16
1,066.54	1,119.67	889.80	444.90	238.70	5,848.73	5,331.81	.....	516.92
7,206.91	4,335.88	3,497.68	1,748.84	924.38	27,613.35	27,677.93	64.58	.....
232.48	287.24	226.75	113.38	61.24	1,686.74	1,879.96	193.22	.....
12,143.53	6,719.83	5,379.30	2,689.65	1,432.62	41,993.74	36,416.56	.....	5,577.18
1,101.06	1,219.55	983.23	491.61	260.00	5,477.97	3,991.79	.....	1,486.18
1,389.96	984.90	797.62	398.81	209.97	4,808.16	3,736.91	.....	1,071.25
1,951.59	1,295.68	1,049.30	524.65	276.23	7,125.11	7,514.67	389.56	.....
3,595.76	2,930.44	2,373.20	1,186.61	624.75	18,608.23	17,643.27	.....	964.96

## EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Millbrook R.P.D.—Cavan, Manvers and Monaghan S. twps.....	32,725.46	16,078.83	16,646.63	1,927.20
Napanee R.P.D.—Camden E., Ernestown, Fredericksburg N., Fredericksburg S., Hungerford, Portland, Richmond, Sheffield and Tyendinaga twps.....	*208,608.05	101,217.97	107,390.08	7,825.70
Nepean R.P.D.—Clarence, Cumberland, Gloucester, Goulburn, Gower N., March, Nepean and Osgoode twps.....	*340,829.57	166,000.16	174,829.41	14,701.51
Newcastle R.P.D.—Clarke, Darlington and Manvers twps.....	*42,054.83	20,096.71	21,958.12	2,715.43
Norwood R.P.D.—Asphodel, Belmont and Methuen, Dummer and Seymour twps.....	*19,624.43	9,485.28	10,139.15	1,691.90
Omeme R.P.D.—Emily and Ops twps.....	7,216.99	3,608.49	3,608.50	177.39
Oshawa R.P.D.—Darlington, Pickering, Uxbridge, Whitby and Whitby E. twps.....	288,550.35	140,722.66	147,827.69	24,378.39
Perth R.P.D.—Bathurst, Burgess N., Dalhousie and Sherbrooke N., Drummond, Elmsley N. and Elmsley S. twps.....	32,372.08	16,186.04	16,186.04	1,329.75
Peterborough R.P.D.—Cavan, Douro, Monaghan N., Monaghan S., Otonabee and Smith twps.....	*180,673.00	90,281.16	90,391.84	15,608.26
Prescott R.P.D.—Augusta, Edwardsburg and Matilda twps.....	76,479.21	38,058.50	38,420.71	3,764.71
Renfrew R.P.D.—Admaston and Horton twps.....	7,883.74	3,941.87	3,941.87	314.02
Smiths Falls R.P.D.—Bastard and Burgess S., Crosby S., Kitley, Montague and Wolford twps.....	*121,021.04	58,494.54	62,526.50	5,181.51
Stirling R.P.D.—Rawdon and Sidney twps.....	*51,478.61	23,362.56	28,116.05	1,484.02
Trenton R.P.D.—Brighton, Murray and Sidney twps.....	*77,844.44	38,828.83	39,015.61	5,906.49
Warkworth R.P.D.—Percy twp.....	*1,671.04	648.75	1,022.29	116.13
Wellington R.P.D.—Ameliasburg, Athol, Hallowell, Hillier and Murray twps.....	*168,011.09	83,492.18	84,518.91	7,212.86
Williamsburg R.P.D.—Matilda and Williamsburg twps.....	37,231.25	18,615.63	18,615.62	1,644.46
Total capital.....	3,326,060.81	1,634,324.39	1,691,736.42	
Non-operating capital.....	2,832.39	1,416.19	1,416.20	
Totals.....	3,328,893.20	1,635,740.58	1,693,152.62	183,714.46

NOTE—Items marked \* include portions of transmission lines aggregating \$22,904.51 used for purposes of rural power districts.



## RURAL POWER DISTRICTS

E.O.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1934

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
984.58	801.16	637.46	318.73	170.80	4,839.93	4,636.14	.....	203.79
4,930.75	5,256.79	4,163.03	2,081.52	1,120.71	25,378.50	22,629.76	.....	2,748.74
15,064.80	8,540.50	6,739.93	3,369.97	1,820.77	50,237.48	48,497.04	.....	1,740.44
1,222.01	1,064.61	824.95	412.48	226.97	6,466.45	6,352.72	.....	113.73
571.29	487.70	381.89	190.94	103.98	3,427.70	2,863.63	.....	564.07
69.83	152.44	123.45	61.73	32.50	617.34	441.41	.....	175.93
12,314.15	7,196.02	5,686.28	2,843.14	1,534.14	53,952.12	54,392.16	440.04	.....
1,587.31	773.25	626.22	313.11	164.85	4,794.49	2,689.17	.....	2,105.32
6,032.50	4,403.10	3,563.63	1,781.81	938.71	32,328.01	32,479.14	151.13	.....
2,928.13	1,889.00	1,522.56	761.28	402.72	11,268.40	11,019.91	.....	248.49
163.78	193.96	157.67	78.83	41.51	949.77	123.78	.....	825.99
5,402.28	3,036.17	2,378.19	1,189.10	647.29	17,834.54	16,910.46	.....	924.08
798.50	1,384.81	1,026.42	513.21	295.23	5,502.19	5,050.14	.....	452.05
2,857.61	1,876.28	1,515.77	757.89	400.01	13,314.05	13,663.97	349.92	.....
25.89	50.50	33.43	16.71	10.76	253.42	295.16	41.74	.....
5,315.49	4,139.00	3,331.43	1,665.71	882.40	22,546.89	20,412.85	.....	2,134.04
1,925.45	901.98	730.47	365.23	192.30	5,759.89	5,406.84	.....	353.05
122,170.71	82,273.43	65,611.42	32,805.71	17,540.50	504,116.23	479,968.71	5,340.51	29,488.03

## EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1934, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1933		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Alexandria.....	Jan., 1921	321.66			321.66
Apple Hill.....	April, 1921		41.87	41.87	
Athens.....	Jan., 1929	533.76			533.76
Bath.....	Nov., 1931	575.67			575.67
Belleville.....	April, 1929	6,236.38			6,236.38
Bloomfield.....	April, 1919	195.36			195.36
Bowmanville.....	Oct., 1931	583.97			583.97
Brighton.....	Nov., 1929	1,054.58			1,054.58
Brockville.....	April, 1915	1,915.74			1,915.74
Cardinal.....	July, 1930		174.99	174.99	
Carleton Place.....	May, 1919	462.88			462.88
Chesterville.....	April, 1914	369.37			369.37
Cobourg.....	Jan., 1932	338.80			338.80
Colborne.....	Jan., 1933		28.09	28.09	
Deseronto.....	Jan., 1931		462.71	462.71	
Finch.....	Feb., 1928	51.29			51.29
Hastings.....	June, 1931	358.82			358.82
Havelock.....	Feb., 1921	232.13			232.13
Kemptville.....	Dec., 1921	406.15			406.15
Lakefield.....	Aug., 1920	1,119.80			1,119.80
Lanark.....	Sept., 1921	65.23			65.23
Lancaster.....	May, 1921		4,527.71		
Lindsay.....	Mar., 1928	3,174.87			3,174.87
Madoc.....	Jan., 1930	203.03			203.03
Marmora.....	Jan., 1921	233.91			233.91
Martintown.....	May, 1921	130.07			130.07
Maxville.....	Feb., 1921	109.94			109.94
Napanee.....	Nov., 1929	1,221.23			1,221.23
Norwood.....	Feb., 1921		102.35	102.98	0.63
Oshawa.....	Feb., 1929	6,965.24		133.33	7,098.57
Ottawa.....	Jan., 1914		1,466.87	1,466.87	
Perth.....	Feb., 1919	1,588.34			1,588.34
Peterborough.....	Mar., 1913		3,572.32	3,572.32	
Picton.....	April, 1919	2,559.15			2,559.15
Port Hope.....	Nov., 1929	2,437.72			2,437.72
Prescott.....	Dec., 1913	793.07			793.07
Richmond.....	Aug., 1928		98.61	98.61	
Russell.....	Feb., 1926	144.69			144.69
Smiths Falls.....	Sept., 1918	665.53			665.53
Stirling.....	Jan., 1930	260.21			260.21
Trenton.....	Sept., 1931	3,407.89			3,407.89
Tweed.....	Dec., 1930		590.26	590.26	
Warkworth.....	Oct., 1923	283.89			283.89
Wellington.....	April, 1919	448.67			448.67
Westport.....	Nov., 1931	617.54			617.54
Whitby.....	Jan., 1926	351.60			351.60
Williamsburg.....	April, 1915	913.03			913.03

## SYSTEM

## E.O.—CREDIT OR CHARGE

supplied to it to October 31, 1933, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each municipality at October 31, 1934

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1934		Accumulated amount standing as a credit or charge on October 31, 1934	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4.27		967.46		971.73	
	0.80	98.79		97.99	
9.11		658.89		668.00	
8.08		192.12		200.20	
84.27		15,762.55		15,846.82	
3.90		545.70		549.60	
9.86		7,428.27		7,438.13	
21.03		1,422.29		1,443.32	
25.61		9,348.73		9,374.34	
	3.22	843.87		840.65	
9.13		4,981.84		4,990.97	
6.19		302.24		308.43	
7.57		5,714.77		5,722.34	
	0.45	306.24		305.79	
	8.52	588.44		579.92	
1.20		295.15		296.35	
6.14		322.84		328.98	
3.76		339.56		343.32	
6.85		815.48		822.33	
18.79		1,097.92		1,116.71	
1.10		393.74		394.84	
	181.11	62.14			4,646.68
51.84		5,207.13		5,258.97	
3.27		784.43		787.70	
4.49		492.19		496.68	
2.31		99.59		101.90	
1.80		533.03		534.83	
20.74		3,668.04		3,688.78	
	1.58	216.90		215.32	
138.57			6,397.97		6,259.40
	38.74	24,252.53		24,213.79	
27.15		4,894.91		4,922.06	
	61.07	11,802.88		11,741.81	
34.50		1,780.11		1,814.61	
37.94		5,983.09		6,021.03	
16.08		2,439.79		2,455.87	
	1.83	48.07		46.24	
3.20		45.48		48.68	
11.23		6,162.50		6,173.73	
4.48		837.25		841.73	
57.14		10,939.13		10,996.27	
	11.13	754.74		743.61	
4.79		349.84		354.63	
7.52		623.48		631.00	
10.85		504.07		514.92	
5.97		3,451.15		3,457.12	
18.54		1,007.44		1,025.98	



## EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1934, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1933		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
Winchester.....	Jan., 1914	\$ 569.49	\$ c.	\$ c.	\$ 569.49
Totals—Municipalities.....		41,900.70	11,065.78	6,672.03	42,034.66
RURAL POWER DISTRICTS*					
Alexandria R.P.D.....	Dec., 1929		3,256.90	578.27	
Arnprior R.P.D.....	Dec., 1930		1,819.52	141.22	
Belleville R.P.D.....	Aug., 1927	23,453.54			
Bowmanville R.P.D.....	Jan., 1924	684.71			5.86
Brighton R.P.D.....	Nov., 1929	71.33			
Brockville R.P.D.....	Nov., 1921	944.68		86.99	15.09
Campbellford R.P.D.....	Aug., 1924		3,040.67	3,162.30	13.04
Carleton Place R.P.D.....	Feb., 1932		75.00	50.03	
Chesterville R.P.D.....	Nov., 1921	1,240.93			1.29
Cobourg R.P.D.....	Feb., 1927	659.26			
Colborne R.P.D.....	Aug., 1925		2,159.29	2,250.30	32.49
Fenelon Falls R.P.D.....	July, 1931		1,253.86	1,148.07	
Iroquois R.P.D.....	July, 1930	2,541.61		11.21	77.28
Kemptville R.P.D.....	Dec., 1930		412.11	139.09	
Kingston R.P.D.....	Jan., 1923		15,653.71	16,279.87	41.85
Lakefield R.P.D.....	July, 1928		2,977.66	2,666.11	
Lindsay R.P.D.....	July, 1930		1,734.08	989.57	6.00
Martintown R.P.D.....	Jan., 1922		719.82	748.61	
Maxville R.P.D.....	Dec., 1927		1,862.73	1,937.24	440.62
Millbrook R.P.D.....	July, 1930		1,673.62	317.89	49.26
Napanee R.P.D.....	Nov., 1927		12,493.52	9,022.31	
Nepean R.P.D.....	Feb., 1922	3,278.08			
Newcastle R.P.D.....	Sept., 1927	1,201.51			
Norwood R.P.D.....	Jan., 1929		2,341.01	1,075.65	
Omemee R.P.D.....	Jan., 1931		585.30	272.62	
Oshawa R.P.D.....	April, 1918	40,063.45			132.00
Perth R.P.D.....	Aug., 1931		3,262.45	2,129.11	371.88
Peterborough R.P.D.....	Jan., 1927	13,409.51			
Prescott R.P.D.....	June, 1922		1,549.61	1,611.59	38.02
Renfrew R.P.D.....	Nov., 1930		1,161.14	409.08	
Smiths Falls R.P.D.....	May, 1929		6,410.94	6,720.88	13.95
Stirling R.P.D.....	Nov., 1929		2,144.57	2,230.35	15.34
Trenton R.P.D.....	Jan., 1924	2,132.19			
Warkworth R.P.D.....	Nov., 1923	20.42			
Wellington R.P.D.....	Nov., 1925		9,234.36	9,603.74	20.36
Williamsburg R.P.D.....	Feb., 1923		2,087.40	1,952.14	41.10
Totals—Rural power districts.....		89,701.22	77,909.27	65,534.24	1,315.43
Totals—Municipalities.....		41,900.70	11,065.78	6,672.03	42,034.66
Totals.....		131,601.92	88,975.05	72,206.27	43,350.09

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## SYSTEM

## E.O.—CREDIT OR CHARGE

supplied to it to October 31, 1933, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each municipality at October 31, 1934

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1934		Accumulated amount standing as a credit or charge on October 31, 1934	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c. 9.17	\$ c.	\$ c. 885.53	\$ c.	\$ c. 894.70	\$ c.
698.44	308.45	140,252.33	6,397.97	140,622.72	10,906.08
	130.28		885.50		3,694.41
	72.78	119.53			1,631.55
938.14		2,835.70		27,227.38	
27.20		310.77		1,016.82	
2.85		205.26		279.44	
37.61		239.06		1,293.05	
	121.71		852.01		865.13
	3.00		19.65		47.62
49.60			3,168.97		1,879.73
26.37			793.53		107.90
	87.21		1,562.16		1,590.85
	50.15		516.92		672.86
99.67		64.58		2,639.79	
	16.48	193.22			96.28
	627.41		5,577.18		5,620.28
	119.11		1,486.18		1,916.84
	69.36		1,071.25		1,891.12
	28.79	389.56		389.56	
	85.10		964.96		1,416.17
	68.75		203.79		1,677.53
	499.74		2,748.74		6,719.69
131.12			1,740.44	1,668.76	
48.06			113.73	1,135.84	
	93.64		564.07		1,923.07
	23.41		175.93		512.02
1,602.54		440.04		41,974.03	
	131.00		2,105.32		3,741.54
536.38		151.13		14,097.02	
	63.20		248.49		287.73
	46.45		825.99		1,624.50
	256.73		924.08		884.82
	86.19		452.05		467.80
85.29		349.92		2,567.40	
0.82		41.74		62.98	
	370.12		2,134.04		2,155.14
	84.87		353.05		614.28
3,585.65	3,135.48	5,340.51	29,488.03	94,352.27	42,038.86
698.44	308.45	140,252.33	6,397.97	140,622.72	10,906.08
4,284.09	3,443.93	145,592.84	35,886.00	234,974.99	52,944.94

## EASTERN ONTARIO SYSTEM

## Reserve for Renewals—October 31, 1934

Total provision for renewals to October 31, 1933.....\$4,027,275.64

## Deduct:

Expenditures to October 31, 1933..... 884,648.61

Balance brought forward at October 31, 1933.....\$3,142,627.03

## Added during the year ending October 31, 1934:

Amounts charged to municipalities and rural power districts  
as part of the cost of power delivered to them..... \$118,843.16

Amounts included in the costs of distribution of power within  
rural power districts..... 65,611.42

Provision against equipment employed in respect of contracts  
with private companies which purchased power, and  
against equipment in local distribution systems..... 58,448.81

Provision against equipment in Campbellford Pulp Mill..... 1,051.20

Interest at 4% per annum on the monthly balances at the credit  
of the account..... 125,705.08

369,659.67

\$3,512,286.70

## Deduct:

Expenditures during the year ending October 31, 1934..... 21,429.50

Balance carried forward October 31, 1934.....\$3,490,857.20



## EASTERN ONTARIO SYSTEM

## Reserve for Obsolescence and Contingencies—October 31, 1934

Balance brought forward at October 31, 1933.....		\$1,131,109.22	
Added during the year ending October 31, 1934:			
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$36,647.96		
Amount included in the costs of distribution of power within rural power districts.....	32,805.71		
Provision against equipment employed in respect of contracts with private companies which purchased power, and local distribution systems.....	15,470.41		
Share of profits on sale of securities in which a portion of the reserve funds of the Commission stood invested.....	3,304.32		
Interest at 4% per annum on monthly balances at the credit of the account.....	45,244.37		
		<u>133,472.77</u>	
			\$1,264,581.99
Deduct:			
Contingencies met with during the year ending October 31, 1934	\$15,852.50		
Loss on operation of local gas works.....	\$4,064.39		
Less: Profit from power sold to customers on local electric distribution systems.....	3,949.11		
		<u>115.28</u>	
Commission's share of foreign exchange paid during the year by the Province of Ontario on the transfer of funds to meet capital retirements, also adjustments in respect of amounts of exchange charged in years 1932 and 1933.....	36,888.83		
			<u>52,856.61</u>
NOTE—Above amount is exclusive of exchange on interest coupons.			
Balance carried forward October 31, 1934.....			<u>\$1,211,725.38</u>

## EASTERN ONTARIO SYSTEM

## E.O.—SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other Sinking Funds, provided out of other revenues of the system, and interest allowed thereon to October 31, 1934

Municipality	Period of years ending Oct. 31, 1934	Amount	Municipality	Period of years ending Oct. 31, 1934	Amount
		\$ c.			\$ c.
Alexandria.....	10 years	19,183.90	Whitby.....	6 years	24,327.91
Apple Hill.....	10 "	1,883.92	Williamsburg.....	14 "	2,956.47
Athens.....	6 "	2,888.80	Winchester.....	15 "	11,893.11
Bath.....	3 "	659.22			
Belleville.....	6 "	73,972.50			
			RURAL POWER DISTRICT*		
Bloomfield.....	6 "	3,033.08	Alexandria R.P.D.....	5 "	1,420.88
Bowmanville.....	3 "	17,224.43	Arnprior R.P.D.....	4 "	251.04
Brighton.....	5 "	4,882.72	Belleville R.P.D.....	6 "	9,455.85
Brockville.....	14 "	99,600.06	Bowmanville R.P.D.....	6 "	2,645.25
Cardinal.....	5 "	1,842.06	Brighton.....	5 "	680.56
Carleton Place.....	10 "	44,659.69	Brockville R.P.D.....	13 "	12,994.96
Chesterville.....	15 "	18,262.73	Campbellford R.P.D.....	6 "	2,398.52
Cobourg.....	3 "	12,854.89	Carleton Place R.P.D.....	3 "	13.41
Colborne.....	2 "	754.03	Chesterville R.P.D.....	13 "	8,321.59
Deseronto.....	4 "	2,625.67	Cobourg R.P.D.....	6 "	10,158.67
Finch.....	7 "	2,086.80	Colborne R.P.D.....	6 "	3,185.59
Hastings.....	4 "	1,161.15	Fenelon Falls R.P.D.....	4 "	1,287.76
Havelock.....	6 "	6,524.31	Iroquois R.P.D.....	5 "	8,314.16
Kemptville.....	10 "	11,211.40	Kemptville R.P.D.....	4 "	508.23
Lakefield.....	6 "	5,859.80	Kingston R.P.D.....	6 "	10,582.97
Lanark.....	10 "	3,500.74	Lakefield R.P.D.....	6 "	1,120.38
Lancaster.....	10 "	4,670.12	Lindsay R.P.D.....	5 "	700.27
Lindsay.....	6 "	42,531.42	Martintown R.P.D.....	13 "	4,856.14
Madoc.....	5 "	3,123.48	Maxville R.P.D.....	7 "	6,962.66
Marmora.....	6 "	2,585.75	Millbrook R.P.D.....	5 "	1,315.91
Martintown.....	10 "	1,194.97	Napanee R.P.D.....	6 "	7,520.56
Maxville.....	10 "	5,604.74	Nepean R.P.D.....	13 "	16,775.39
Napanee.....	5 "	18,124.41	Newcastle R.P.D.....	6 "	2,329.79
Norwood.....	6 "	3,155.66	Norwood R.P.D.....	6 "	1,089.56
Oshawa.....	6 "	225,862.78	Omemee R.P.D.....	4 "	146.33
Ottawa.....	19 "	65,541.31	Oshawa R.P.D.....	6 "	22,020.56
Perth.....	10 "	38,313.32	Perth R.P.D.....	4 "	758.73
Peterborough.....	6 "	140,270.73	Peterborough R.P.D.....	6 "	15,518.82
Pictou.....	6 "	24,810.58	Prescott R.P.D.....	13 "	6,992.24
Port Hope.....	5 "	22,519.90	Renfrew R.P.D.....	4 "	160.94
Prescott.....	15 "	28,195.52	Smiths Falls R.P.D.....	6 "	5,975.16
Richmond.....	7 "	1,143.40	Stirling R.P.D.....	5 "	1,877.92
Russell.....	9 "	3,199.75	Trenton R.P.D.....	6 "	3,454.90
Smiths Falls.....	11 "	57,974.92	Warkworth R.P.D.....	6 "	113.36
Stirling.....	5 "	3,796.18	Wellington R.P.D.....	6 "	7,103.24
Trenton.....	3 "	23,666.97	Williamsburg R.P.D.....	10 "	1,320.94
Tweed.....	4 "	3,343.93			
Warkworth.....	6 "	1,796.65	Total.....		1,281,767.77
Wellington.....	6 "	4,748.47			
Westport.....	3 "	1,410.18			

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## EASTERN ONTARIO SYSTEM

## Reserve for Sinking Fund—October 31, 1934

Total provision for sinking fund to October 31, 1933.....\$1,064,379.57

## Provided in the year ending October 31, 1934:

By charges included in the cost of power delivered to municipalities and rural power districts.....	\$109,931.07	
By charges included in the costs of distribution of power within rural power districts.....	17,540.50	
By charges against contracts with private companies which purchased power, and local distribution systems.....	47,341.45	
Interest at 4% per annum on the amount standing at the credit of the reserve accounts.....	42,575.18	
		217,388.20
Total.....		<u>\$1,281,767.77</u>



## THUNDER BAY

## Operating Account for Year

## COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT

Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of this system:

Generation and transmission equipment.....	\$212,459.45	
Rural power districts.....	3,531.59	
		\$215,991.04

Interest (including exchange thereon) on capital investment in:

Generation and transmission equipment.....	\$909,804.12	
Rural power districts.....	2,818.50	
		912,622.62

Provision for renewals of:

Generation and transmission equipment.....	\$158,209.53	
Rural power districts.....	2,280.75	
		160,490.28

Provision for obsolescence and contingencies in respect of:

Rural power districts.....	\$1,140.37	
		1,140.37

Provision for sinking fund:

By charges included in the cost of power delivered to municipalities and rural power districts.....	\$102,657.53	
By charges against contracts with private companies which purchased power.....	45,065.30	
By charges included in the cost of distribution of power within rural power districts.....	600.41	
		148,323.24

\$1,438,567.55

## SYSTEM

Ending October 31, 1934

## REVENUE FOR PERIOD

Amount received from (or billed against) each municipality by the.		
Commission.....	\$951,828.87	
Power sold to private companies.....	419,443.73	
Amount received from (or billed against) customers in rural power districts.....	11,793.92	
		<u>\$1,383,066.52</u>
Add:		
Amounts due by certain municipalities, being the difference between the sums received (or billed) at interim rates and the amounts charged—following annual adjustment—in respect of power supplied in the year.....	\$ 53,830.77	
Amounts due by municipalities comprising certain rural power districts, being the difference between the sums received from (or billed against) customers therein and the amounts charged to such districts—following annual adjustment—in respect of power supplied in the year.....	1,755.58	
		<u>55,586.35</u>
		<u>\$1,438,652.87</u>
Deduct:		
Amount received from (or billed against) a certain municipality at interim monthly rates in excess of the amounts charged—following annual adjustment—in respect of power supplied in the year.....		85.32
Revenue.....	\$1,438,567.55	
		<u>\$1,438,567.55</u>

## THUNDER BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating	
	To Jan. 1, 1934	To Oct. 31, 1934			Operating, maintenance and administrative expenses	Interest (including exchange)
			\$ c.		\$ c.	\$ c.
Fort William.....	\$21.00 plus transformation charges.....		3,346,962.47	10,264.2	39,523.01	163,271.74
Port Arthur.....	\$21.00 plus transformation charges.....		10,449,362.54	32,422.3	120,277.05	509,256.71
Nipigon township.....	\$28.00.....	\$30.00.....	25,623.21	86.0	919.10	1,252.06
RURAL POWER DISTRICTS						
Fort William R.P.D.—Neebing, Oliver and Paipoonge twps. ....			28,677.89	80.1	312.10	1,408.62
Port Arthur R.P.D.—Shuniah twp. ....			13,979.29	35.9	174.68	686.48
Totals—Municipalities.....			13,821,948.22	42,772.5	160,719.16	673,780.51
Totals—Rural power districts.....			42,657.18	116.0	486.78	2,095.10
Totals—Companies.....			4,756,436.41	14,754.5	51,253.51	233,928.51
Grand totals.....			18,621,041.81	57,643.0	212,459.45	909,804.12

## THUNDER BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual

Districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Fort William R.P.D.—Neebing, Oliver and Paipoonge twps. ....	67,649.30	33,824.65	33,824.65	2,112.41
Port Arthur R.P.D.—Shuniah twp. ....	49,488.54	24,744.27	24,744.27	1,065.47
Totals.....	117,137.84	58,568.92	58,568.92	3,177.88



## SYSTEM

## T.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1934

costs and fixed charges		Total	Revenue received in excess of cost of power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Sinking Fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
29,025.91	24,871.86	256,692.52	12,077.82	244,614.70	231,443.57	.....	13,171.13
89,843.29	77,270.77	796,647.82	38,151.10	758,496.72	717,837.08	.....	40,659.64
210.01	182.93	2,564.10	101.20	2,462.90	2,548.22	85.32	.....
264.90	221.04	2,206.66	94.25	2,112.41	2,112.41	see	below
135.62	110.93	1,107.71	42.24	1,065.47	1,065.47	"	"
119,079.21	102,325.56	1,055,904.44	(50,330.12)	1,005,574.32	951,828.87	85.32	53,830.77
400.52	331.97	3,314.37	(136.49)	3,177.88	3,177.88	.....	.....
38,729.80	45,065.30	368,977.12	50,466.61	419,443.73	419,443.73	.....	.....
158,209.53	147,722.83	1,428,195.93	.....	1,428,195.93	1,374,450.48	85.32	53,830.77

## RURAL POWER DISTRICTS

## T.B.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment costs in the year ending October 31, 1934

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,721.12	1,622.23	1,312.72	656.36	345.57	7,770.41	7,750.83	.....	19.58
1,810.47	1,196.27	968.03	484.01	254.84	5,779.09	4,043.09	.....	1,736.00
3,531.59	2,818.50	2,280.75	1,140.37	600.41	13,549.50	11,793.92	.....	1,755.58

## THUNDER BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1934, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1933		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
Fort William.....	Oct., 1926	\$ c.	\$ c.	\$ c.	\$ c.
Nipigon twp.....	Jan., 1925		23,365.27	15,770.75	
Port Arthur.....	Dec., 1910		587.81	706.01	
			73,974.37	54,173.32	
RURAL POWER DISTRICTS*					
Fort William R.P.D.....	Oct., 1932		1,646.16	1,552.94	16.22
Port Arthur R.P.D.....	Jan., 1932		1,719.50	842.00	
Totals.....			101,293.11	73,045.02	16.22

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## THUNDER BAY SYSTEM

## Reserve for Renewals—October 31, 1934

Total provision for renewals to October 31, 1933.....	\$1,340,141.96
Deduct:	
Expenditures to October 31, 1933.....	14,822.47
Balance brought forward October 31, 1933.....	\$1,325,319.49
Added during the year ending October 31, 1934:	
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$119,479.73
Amounts included in the costs of distribution of power within rural power districts.....	2,280.75
Provision against equipment employed in respect of contracts with private companies which purchased power.....	38,729.80
Minor credits to reserves upon transfer of lines and equipment	3,541.99
Interest at 4% per annum on monthly balances at the credit of the account.....	53,012.78
	217,045.05
	\$1,542,364.54
Deduct:	
Expenditures during the year ending October 31, 1934.....	145.22
Balance carried forward October 31, 1934.....	\$1,542,219.32

## SYSTEM

T.B.—CREDIT OR CHARGE

supplied to it to October 31, 1933, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1934

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1934		Accumulated amount standing as a credit or charge on October 31, 1934	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	303.79		13,171.13		21,069.44
	15.11	85.32		188.41	
	827.97		40,659.64		61,288.66
	63.48		19.58		192.50
	67.56		1,736.00		2,681.06
	1,277.91	85.32	55,586.35	188.41	85,231.66

## THUNDER BAY SYSTEM

## Reserve for Obsolescence and Contingencies—October 31, 1934

Balance brought forward October 31, 1933.....	\$715,396.31	
Deduct:		
Cost to the Commission (including provisions for sinking fund \$34,794.54 and renewals \$35,948.03) of power delivered to private companies under flat rate contracts, in excess of revenue received from them in the year 1933—which excess has now been charged against the Contingency Reserve of the system.....	41,359.65	
		\$674,036.66
Added during the year ending October 31, 1934:		
Amount included in the costs of distribution of power within rural power districts.....	\$1,140.37	
Share of profits realized on sale of securities in which a portion of the reserve funds of the Commission stood invested.....	1,577.82	
Commission's share of American and Sterling exchange (net credit) on the transfer of funds to New York and London by Province of Ontario to meet capital retirements, inclusive of adjustments of amounts over charged the Commission in years 1932 and 1933.....	23,962.17	
NOTE—Above amount is exclusive of exchange on interest coupons.		
Interest at 4% per annum on monthly balances at the credit of the account.....	26,961.47	
		53,641.83
		\$727,678.49
Deduct:		
Contingencies met with during the year ending October 31, 1934.....		14.65
Balance carried forward October 31, 1934.....		\$727,663.84



## THUNDER BAY SYSTEM

## T.B.—SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1934

Municipality	Period of years ending October 31, 1934	Amount
		\$ c.
Fort William.....	8 years	284,329.89
Port Arthur.....	8 "	963,397.68
Nipigon township.....	8 "	1,765.75
RURAL POWER DISTRICTS*		
Fort William R.P.D.....	3 years	1,286.66
Port Arthur R.P.D.....	3 "	773.26
Total.....		1,251,553.24

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## MANITOULIN ISLAND

Statement showing the costs of distribution of power within Rural Power District, amount remaining to be charged to the Municipalities comprising costs in the year ending

District and municipalities comprised therein	Total capital cost of the district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power purchased
	Total capital cost	Govern- ment grant	Com- mission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Manitoulin R.P.D.—Billings, Carnarvon and Gordon and Allan twps., Town of Gore Bay and Indian Reserve.....	64,933.41	29,460.55	35,472.86	3,750.00

THUNDER BAY SYSTEM

Reserve for Sinking Fund—October 31, 1934

Total provision for sinking fund to October 31, 1933.....	\$1,063,953.45	
Deduct:		
Adjustments in respect of previous years' assessments.....	3,155.37	
		\$1,060,798.08
Provided in the year ending October 31, 1934:		
By charges included in the cost of power delivered to municipalities and rural power districts.....	\$102,657.53	
By charges included in the costs of distribution of power within rural power districts.....	600.41	
By charges against contracts with private companies which purchased power.....	45,065.30	
Interest at 4% per annum on amounts standing at the credit of the reserve accounts.....	42,431.92	
		190,755.16
Total.....		\$1,251,553.24

RURAL POWER DISTRICT

MANITOULIN—RURAL OPERATING

the revenues collected from (or charged to) customers within the District, and the this District upon ascertainment (by annual adjustment) of the actual October 31, 1934

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in the district	Amount remaining to be charged to the municipalities comprising the district
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,313.61	1,888.53	1,288.67	644.33	373.52	10,258.66	8,235.38	2,023.28

## MANITOULIN ISLAND

Statement showing the net charge to Manitoulin Rural Power District in respect  
net amount charged this Rural Power District in respect of power supplied  
as a charge at

Rural power district	Date commenced operating	Net charge at October 31, 1933	Cash receipts and pay- ments on account of such charges, also ad- justments made during the year
		Charge	Credited
		\$ c.	\$ c.
Manitoulin R.P.D.—Billings, Car- narvon & Gordon & Allan twps. Town of Gore Bay and Indian Reserve...	Dec., 1932	1,383.84	515.41

## MANITOULIN ISLAND RURAL POWER DISTRICT

## Reserve for Renewals—October 31, 1934

Total provision for renewals to October 31, 1933.....		\$996.29
Provided in the year ending October 31, 1934.....	\$1,288.67	
Minor credit on the purchase of lines and equipment.....	1,287.00	
Interest at 4% per annum on monthly balances at the credit of the account.....	39.85	
		<u>2,615.52</u>
		\$3,611.81
Deduct:		
Expenditures during the year ending October 31, 1934.....		204.46
Balance carried forward October 31, 1934.....		<u>\$3,407.35</u>



## RURAL POWER DISTRICT

## MANITOULIN—CREDIT OR CHARGE

of power supplied to it to October 31, 1933, interest added during the year; also the in the year ending October 31, 1934, and the accumulated amount standing October 31, 1934

Interest at 4% per annum added during the year	Net amount charged in respect of power supplied in the year ending October 31, 1934	Accumulated amount standing as a charge on October 31, 1934
Charged	Charged	Charge
\$ c.	\$ c.	\$ c.
55.74	2,023.28	2,947.45

## MANITOULIN ISLAND RURAL POWER DISTRICT

## Reserve for Obsolescence and Contingencies—October 31, 1934

Total provision for contingencies to October 31, 1933.....		\$476.90
Provided in the year ending October 31, 1934.....	\$644.33	
Interest at 4% per annum on monthly balances at the credit of the account.....	19.08	663.41
		<u>\$1,140.31</u>
Deduct:		
Commission's share of American and Sterling exchange paid by Province of Ontario on the transfer of funds to New York and London to meet capital retirements.....		22.42
		<u></u>
NOTE—Above amount is exclusive of American exchange on interest coupons.		
Balance carried forward October 31, 1934.....		<u><u>\$1,117.89</u></u>

## MANITOULIN ISLAND RURAL POWER DISTRICT

## Reserve for Sinking Fund—October 31, 1934

Total provision for sinking fund to October 31, 1933.....	\$285.45
Provided in the year ending October 31, 1934.....	373.52
Interest at 4% per annum on monthly balances at the credit of the account.....	11.42
	<u><u>\$670.39</u></u>

NORTHERN ONTARIO  
EMBRACING THE NIPISSING, WAHNAPIITAE, ABITIBI-SUDBURY,  
Operating Account for the

COSTS OF OPERATION

Power purchased:		
For Abitibi-Sudbury district (temporary).....	\$3,426.18	
For Nipissing district (temporary).....	39.31	
For Espanola district.....	2,989.69	
		\$6,455.18
Costs of operation and maintenance, including the proportion of administrative expenses of the Commission, chargeable to the operation of these properties:		
Nipissing district.....	\$95,276.04	
Wahnapitae district.....	97,342.09	
Abitibi-Sudbury district.....	196,013.97	
Patricia district.....	21,234.45	
Espanola district.....	168.47	
		410,035.02
Interest on capital investment in generation and transmission equipment in:		
Nipissing district.....	\$78,015.43	
Wahnapitae district.....	128,530.92	
Abitibi-Sudbury district.....	708,476.00	
Patricia district.....	23,910.17	
Espanola district.....	333.33	
		939,265.85
Provision for renewal of generation and transmission equipment (at rates established by engineers of the Commission):		
Nipissing district.....	\$21,337.90	
Wahnapitae district.....	27,113.65	
Abitibi-Sudbury district.....	133,193.37	
Patricia district.....	7,253.12	
Espanola district.....	100.00	
		188,998.04
Provision for obsolescence and contingencies in respect of generation and transmission equipment in:		
Nipissing district.....	\$8,399.80	
Wahnapitae district.....	18,075.77	
Patricia district.....	4,835.41	
Abitibi-Sudbury district.....		
Espanola district.....		
		31,310.98
		<u>\$1,576,065.07</u>

NORTHERN ONTARIO PROPERTIES

Embracing the Nipissing, Wahnapitae, Abitibi-Sudbury, Patricia,  
(Ear Falls) and Espanola Districts

Reserve for Renewals—October 31, 1934

Total provision for renewals to October 31, 1933.....	\$470,542.34	
Deduct expenditures to October 31, 1933.....	56,863.24	
		\$413,679.10
Amount of reserves to October 31, 1933.....		
Added during the year ending October 31, 1934:		
Provision against equipment employed in respect of contracts with private companies which purchased power and against local distribution systems.....	\$188,998.04	
Minor credits to reserves on transfers of equipment.....	3,676.53	
Interest at 4% per annum on monthly balances at the credit of the account.....	16,663.96	
		209,338.53
		\$623,017.63
Deduct:		
Expenditures during the year ending October 31, 1934.....		7,831.14
Balance carried forward October 31, 1934.....		<u>\$615,186.49</u>

## PROPERTIES

## PATRICIA (EAR FALLS) AND ESPANOLA DISTRICTS

Year Ending October 31, 1934

## REVENUE FOR PERIOD

Power sold to private companies and customers in the following districts:

Nipissing district.....	\$236,866.72
Wahnapitae district.....	362,539.55
Abitibi-Sudbury district.....	562,549.31
Patricia district.....	67,257.33
Espanola district.....	4,698.42
Power supplied to rural power districts within the Nipissing district.....	4,399.67
	<u>\$1,238,311.00</u>
Net operating shortage for year.....	<u>337,754.07</u>

\$1,576,065.07

## NORTHERN ONTARIO PROPERTIES

Embracing the Nipissing, Wahnapitae, Abitibi-Sudbury, Patricia,  
(Ear Falls) and Espanola Districts

## Reserve for Obsolescence and Contingencies—October 31, 1934

Total provision for contingencies to October 31, 1933.....	\$211,603.46
Added during the year ending October 31, 1934.....	\$31,310.98
Share of profits realized on sale of securities in which a portion of the reserve funds of the Commission stood invested.....	483.45
Commission's share of American and Sterling exchange (net credit) on the transfer of funds to New York and London by Province of Ontario to meet capital retirements, inclusive of adjustments of amounts overcharged the Commission in years 1932 and 1933	6,323.80
NOTE—Above amount is exclusive of exchange on interest coupons.	
Interest at 4% per annum on monthly balances at the credit of the account.....	8,464.13
	<u>46,582.36</u>
	<u>\$258,185.82</u>
Deduct:	
Contingencies met with during the year ending October 31, 1934.....	4,763.43
Balance carried forward October 31, 1934.....	<u>\$253,422.39</u>



## NORTHERN ONTARIO

## NIPISSING RURAL

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
North Bay R.P.D.—West Ferris and Widdifield twps.....	39,420.30	19,338.28	20,082.02	4,288.96
Powassan R.P.D.—Himsworth S. twp.....	5,338.37	2,669.18	2,669.19	110.71
Totals.....	44,758.67	22,007.46	22,751.21	4,399.67

## NORTHERN ONTARIO

## NIPISSING RURAL

Statement showing the net Credit to each Municipality in respect of power supplied Credited to each Municipality in respect of power supplied in the year to each Municipality

Rural power district	Date commenced operating	Net credit at October 31, 1933
		Credit
		\$ c.
North Bay R.P.D.—West Ferris and Widdifield twps.....	June, 1927	8,875.35
Powassan R.P.D.—Himsworth S. twp.....	Nov., 1931	112.40
Totals.....		8,987.75

## PROPERTIES

## POWER DISTRICTS

## NIPISSING RURAL—OPERATING

District, the revenues collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment (by in the year ending October 31, 1934

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,858.38	874.89	734.85	367.42	197.36	8,321.86	9,089.11	767.25	.....
155.57	123.44	105.29	52.65	27.72	575.38	636.83	61.45	.....
2,013.95	998.33	840.14	420.07	225.08	8,897.24	9,725.94	828.70	.....

## PROPERTIES

## POWER DISTRICTS

## NIPISSING RURAL—CREDIT OR CHARGE

to it to October 31, 1933, the interest added during the year; also the net amount ending October 31, 1934, and the accumulated amount standing as a Credit at October 31, 1934

Interest at 4% per annum added during the year	Net amount credited in respect of power supplied in the year ending October 31, 1934	Accumulated amount standing as a credit on October 31, 1934
Credited	Credited	Credit
\$ c.	\$ c.	\$ c.
355.01	767.25	9,997.61
4.50	61.45	178.35
359.51	828.70	10,175.96

## NORTHERN ONTARIO

## NIPISSING RURAL POWER DISTRICTS

## Reserve for Renewals

Total provision for renewals to October 31, 1933.....	\$3,800.33
Added during the year ending October 31, 1934.....	840.14
Interest at 4% per annum on monthly balances at the credit of the account.....	152.01
Balance carried forward October 31, 1934.....	<u>\$4,792.48</u>

## NIPISSING RURAL POWER DISTRICTS

Statement showing Sinking Fund paid by each Rural Power District in the periods mentioned hereunder, as part of the cost of power delivered thereto and interest allowed thereon to October 31, 1934

Rural power district	Period of years ending October 31, 1934	Amount
North Bay R.P.D.—West Ferris and Widdifield twps.....	5 years	\$ c. 857.51
Powassan R.P.D.—Himsworth S. twp.....	3 “	77.64
Total.....		<u>935.15</u>

## ACCOUNT WITH THE PROVINCIAL TREASURER—NIAGARA AND

April 30, 1934	Cash returned to the Province in the year ending October 31, 1934 to cover the difference between advances by the Province to the Commission and the capital expenditures made out of such advances by the Commission in the year ending October 31, 1933.....	\$342,118.80
April 30, 1934	Paid on account of interest and exchange.....	\$5,000,000.00
Oct. 31, 1934	Cheque to cover balance of interest and exchange for year ending October 31, 1934.....	4,800,449.85
Oct. 31, 1934	Payment under debt retirement plan.....	9,800,449.85
Oct. 31, 1934	Balance carried down.....	2,412,398.33
		<u>187,829,243.28</u>
		<u>\$200,384,210.26</u>



## PROPERTIES

## NIPISSING RURAL POWER DISTRICTS

## Reserve for Obsolescence and Contingencies

Total provision for contingencies to October 31, 1933.....	\$1,317.98
Added during the year ending October 31, 1934.....	420.07
Interest at 4% per annum on monthly balances at the credit of the account.....	52.72
Balance carried forward October 31, 1934.....	<u>\$1,790.77</u>

## NIPISSING RURAL POWER DISTRICTS

## Reserve for Sinking Fund

Total provision for sinking fund to October 31, 1933.....	\$682.76
Added during the year ending October 31, 1934.....	225.08
Interest at 4% per annum on monthly balances at the credit of the account.....	27.31
Total.....	<u>\$935.15</u>

## OTHER SYSTEMS—FOR THE YEAR ENDING OCTOBER 31, 1934

Oct. 31, 1933	Cash advances to date for the purposes of Niagara and other power systems.....	\$204,973,166.14
	Less repayments to that date under debt retirement plan.....	17,008,616.73
		<u>\$187,964,549.41</u>
Nov. 1, 1933 to Oct. 31, 1934	Sundry cash advances.....	2,619,211.00
Oct. 31, 1934	Interest for year on all cash advances.....	\$10,510,971.95
Oct. 31, 1934	Commission's share of exchange paid during the year by the Province of Ontario on the transfer of funds to New York and London to meet interest and capital retirements.....	329,363.09
		<u>\$10,840,335.04</u>
	Deduct:	
	Amounts overcharged in respect of foreign exchange in the two years ending October 31, 1932 and 1933.....	203,726.70
		<u>\$10,636,608.34</u>
	Less—Interest credited by Province on re- payments made by Commission.....	836,158.29
		<u>9,800,449.85</u>
		<u>\$200,384,210.26</u>
Nov. 1, 1934	Total cash advances.....	\$207,250,258.34
	Less—Payments made under debt retirement plan.....	19,421,015.06
		<u>\$187,829,243.28</u>

		GUELPH
		Operating Account for
EXPENDITURES		
Transportation expense.....	\$24,035.03	
Maintenance—way and structures.....	6,400.22	
Maintenance—equipment.....	14,718.57	
Electric power and motor fuel.....	10,763.84	
General operating and management expenses, including a proportion of administrative and accounting expenses of the Commission chargeable to the operation of the railway.....	9,465.24	
Insurance.....	3,764.20	
Taxes.....	256.85	
		\$69,403.95
Interest—net.....		13,393.35
Provision for instalments payable to the City of Guelph on May 1, 1934, and November 1, 1934, under purchase agreement:		
Interest for year.....	\$2,969.35	
On account of principal.....	8,730.65	
		11,700.00
Provision for sinking fund.....		3,159.00
		<u>\$97,656.30</u>

## GUELPH RADIAL RAILWAY

## Reserve for Renewals—October 31, 1934

Total provision for renewals to October 31, 1933.....	\$57,030.74		
Deduct:			
Expenditures to October 31, 1933.....	25,557.76		
Balance brought forward October 31, 1933.....			\$31,472.98
Added during the year ending October 31, 1934:			
Interest at 4% on the monthly balances at the credit of the account.....			1,252.10
			<u>\$32,725.08</u>
Deduct:			
Expenditures during the year ending October 31, 1934.....			227.43
Balance carried forward October 31, 1934.....			<u>\$32,497.65</u>

## RADIAL RAILWAY

the Year Ending October 31, 1934

## REVENUE

Operating revenue.....	\$65,048.91
Net deficit for year after provision for instalments on account of principal and interest payable to the City of Guelph, under the purchase agreement, but before making provision for renewal of road and equipment.....	32,607.39

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\$97,656.30


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## GUELPH RADIAL RAILWAY

Reserve for Sinking Fund—October 31, 1934

Total provision for sinking fund to October 31, 1933.....	\$8,152.75
Provided in the year ending October 31, 1934.....	3,159.00
Interest at 4% on the monthly balances at the credit of the account.....	326.11

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Balance carried forward October 31, 1934..... \$11,637.86


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THE HAMILTON STREET  
A Subsidiary of the Hydro-Electric  
Balance Sheet—

ASSETS

Properties, road, equipment, motor buses, franchises, etc., as shown in the books of the Company.....	\$4,773,862.68	
Less—Reserves for renewal—		
Of properties, road and equipment.....	\$676,545.60	
Of motor buses.....	187,536.34	
		864,081.94
		\$3,909,780.74
Expenditures by Company in respect of T. H. & B. subway at James Street—carried forward pending final allocation of total cost of subway by Dominion Railway Board.....		20,932.78
Materials and supplies.....		45,596.47
Cash in bank.....	\$7,296.32	
Cash in hands of conductors and other employees.....	11,170.00	
		18,466.32
Accounts receivable, less reserve for doubtful accounts.....		7,993.38
Taxes, insurance and expenses prepaid.....		5,426.62
		<u>\$4,008,196.31</u>

THE HAMILTON STREET  
A Subsidiary of the Hydro-Electric  
Statement of Revenue and Expenditure—

EXPENDITURE

Transportation expenses.....	\$306,220.83
Maintenance—way and structures.....	51,556.92
Maintenance of equipment.....	91,759.40
Power and motor fuel.....	175,530.70
General operating and management expenses, including a proportion of administrative and accounting expenses of the Commission chargeable to the operation of the railway.....	69,035.75
Provision for renewals of motor buses.....	1,950.00
Taxes (including franchise tax).....	58,172.50
Insurance—fire, accident and liability.....	39,322.78
Total operating expenses.....	\$793,548.88
Profit for year, before provision for renewal of road and equipment other than motor buses.....	25,731.60
	<u>\$819,280.48</u>

## RAILWAY COMPANY

## Power Commission of Ontario

October 31, 1934

## LIABILITIES

Capital stock:		
Issued—64,100 shares of a par value of \$50.00 each.....	\$3,205,000.00	
Capital surplus—Created by advances to the Company by Dominion Power and Transmission Company, Limited prior to 31st December, 1929.....	488,846.85	
		\$3,693,846.85
Profit and loss account at October 31, 1933.....	\$17,961.24	
Less—Charges thereagainst in the last fiscal year.....	4,067.38	
		13,893.86
Hydro-Electric Power Commission of Ontario—		
Cash advances.....		257,306.71
Accounts payable and accrued charges.....		31,749.04
Reserve for public liability insurance.....		1,399.85
Reserve for outstanding tickets.....		10,000.00
Contingent liability—		
Share of cost of T. H. & B. subway at James Street expected to be found payable by Company upon final allocation of total cost of subway by Dominion Railway Board.		
		<u>\$4,008,196.31</u>

## RAILWAY COMPANY

## Power Commission of Ontario

For the Year Ending October 31, 1934

## REVENUE

Passenger.....	\$809,694.20
Freight and express .....	3,979.76
Miscellaneous.....	5,606.52
Total revenue.....	\$819,280.48
	<u>\$819,280.48</u>

## NOTE:

Interest on Commission's advances to, and investment in capital stock of the Hamilton Street Railway Company.....	\$156,907.79
in excess of profit for year (before provision for renewal of road and equipment other than motor buses) from operation of the street railway..	25,731.60
a balance of.....	131,176.19
has been charged to the contingency reserve of the Niagara system.	

# APPROPRIATIONS, ADVANCES AND CAPITAL EXPENDITURES

For the Year Ending October 31, 1934

Appropriations made by the Legislature for the purposes of the Commission, Cash Advances by the Province to the Commission on account of such Appropriations, and the Capital Expenditures made on each Undertaking and System by the Commission out of such Cash Advances in the Year Ending October 31, 1934

## NIAGARA SYSTEM

Appropriations by Legislature and by Treasury Board Minute:		
For power developments (including Chats Falls).....	\$175,000.00	
For transformer and distributing stations.....	200,000.00	
For transmission lines and rural distribution systems.....	490,500.00	
	<u>\$865,500.00</u>	
Cash advances to the Commission out of such appropriations and Treasury Board Minute.....	\$556,500.00	
Unexpended balance as at October 31, 1934 returnable to Province.....	56,318.71	
		\$500,181.29
Capital expenditure by the Commission:		
On Chats Falls development.....	\$29,373.17	
On steam plant (Hamilton).....	396.29	
On steel-tower lines.....	146,847.62	
On wood pole lines.....	67,770.33	
On transformer stations.....	50,663.63	
On Eastern transformer stations.....	17,973.30	
On Eastern right-of-way.....	28,398.55	
On rural power districts.....	175,986.15	
On local distribution systems.....	3,695.24	
	<u>\$521,104.28</u>	
On Ontario Power development—		
Receipts in excess of expenditures.....	\$2,873.69	
On Toronto Power development—		
Receipts in excess of expenditures.....	40.00	
On DeCew development—		
Receipts in excess of expenditures.....	864.13	
On Queenston-Chippawa development—		
Receipts in excess of expenditures.....	9,714.46	
On right-of-way—		
Receipts in excess of expenditures.....	6,392.21	
On Eastern transmission lines—		
Receipts in excess of expenditures.....	1,038.50	
	<u>20,922.99</u>	
		<u>\$500,181.29</u>

## GEORGIAN BAY SYSTEM

Appropriations by Legislature.....	\$180,000.00	
Cash advances to the Commission out of such appropriations.....	\$48,000.00	
Unexpended balance as at October 31, 1934, returnable to the Province.....	15,366.48	
		\$32,633.52
Capital expenditure by the Commission:		
On rural power districts.....	\$51,248.15	
On local distribution systems.....	2,154.32	
	<u>\$53,402.47</u>	
On power development—		
Receipts in excess of expenditures.....	\$2,542.47	
On transformer stations—		
Receipts in excess of expenditures.....	3,046.61	
On transmission lines—		
Receipts in excess of expenditures.....	15,179.87	
	<u>20,768.95</u>	
		<u>\$32,633.52</u>



## EASTERN ONTARIO SYSTEM

Appropriations by Legislature and by Treasury Board Minute .....	\$629,550.00	
Cash advances to the Commission out of such appropriations and Treasury Board Minute.....	\$570,000.00	
Unexpended balance as at October 31, 1934 returnable to the Province.....	91,211.32	\$478,788.63
Capital expenditure by the Commission:		
On power developments.....	\$2,708.35	
On transmission lines.....	332,582.04	
On transformer stations.....	93,836.72	
On rural power districts.....	48,116.27	
On local distribution systems:		
Electric.....	\$1,216.98	
Gas—Receipts in excess of expenditures.....	68.54	
	1,148.44	
On rural lines.....	396.86	
		<u>\$478,788.63</u>

## THUNDER BAY SYSTEM

Appropriations by Legislature and by Treasury Board Minute .....	\$63,000.00	
Cash advances to the Commission out of such appropriations and Treasury Board Minute.....	\$52,607.00	
Deduct—Capital expenditures in the year ending October 31, 1933 in excess of cash advances by the Province.....	1,033.67	\$51,573.33
Unexpended balance as at October 31, 1934 returnable to the Province.....	2,734.78	\$48,838.55
Capital expenditure by the Commission:		
On power developments.....	\$3,915.46	
On transmission lines.....	3,688.21	
On transformer stations.....	36,604.97	
On rural power districts.....	4,629.91	
		<u>\$48,838.55</u>

NORTHERN ONTARIO PROPERTIES  
(Other than Abitibi Canyon Development separately shown)  
AND

## MANITOULIN RURAL POWER DISTRICT

Appropriations by Legislature, by Special Warrant and by Treasury Board Minute.....	\$1,299,847.00	
Cash advances to the Commission out of such appropriations, Special Warrants and Treasury Board Minute.....	\$1,244,104.00	
Deduct—Capital expenditures in the year ending October 31, 1933 in excess of cash advances by the Province.....	3,723.72	\$1,240,380.28
Unexpended balance as at October 31, 1934 returnable to the Province.....	76,283.16	\$1,164,097.12
Capital expenditure by the Commission:		
On transmission lines—Nipissing district.....	\$903.85	
On transformer stations—Nipissing district.....	643.86	
On rural power districts—Nipissing district.....	3,118.98	
On local distribution systems—Nipissing district.....	17,039.85	
	\$21,706.54	
On power developments—Nipissing district		
Receipts in excess of expenditures.....	1,194.07	\$20,512.47
Carried forward		\$20,512.47

**NORTHERN ONTARIO PROPERTIES**  
**(Other than Abitibi Canyon Development separately shown)**  
**AND**  
**MANITOULIN RURAL POWER DISTRICT—Continued**

	Brought forward	\$20,512.47
On transformer stations—Abitibi-Sudbury district.....	\$499,561.79	
On transmission lines—Abitibi-Sudbury district.....	501,077.28	
		1,000,639.07
On power development—Patricia (Ear Falls) district.....		4,284.82
On power development—St. Josephs district....	\$91,293.44	
On transmission lines—St. Josephs district.....	50,977.16	
		142,270.60
On transmission line—Espanola district.....		1,928.33
		\$1,169,635.29
On power developments—Wahnapitae district— Receipts in excess of expenditures.....	\$10,018.30	
On transformer stations—Wahnapitae district....	1,633.06	
		8,885.24
		\$1,161,250.05
Capital expenditure by the Commission on Manitoulin rural power district.....		2,847.07
		<u>\$1,164,097.12</u>

**ABITIBI CANYON DEVELOPMENT**

Appropriations by Special Warrant.....	\$232,400.00	
Cash advances to the Commission out of such appropriations.....	Nil	
Capital expenditure by the Commission during the year ended October 31, 1934 out of funds turned over to it by the Receiver for the bondholders of Ontario Power Service Corporation Limited:		
Towards completion of the development, less certain amounts recovered from material salvaged and sold.....	\$132,315.36	
Expenditures incidental to the purchase of the properties— professional fees, etc.....	11,714.71	
In settlement of contractors' and other claims, together with interest thereon to October 31, 1933, and including expenses incidental thereto.....	\$184,945.37	
		\$328,975.44
Less:		
Cost of certain transformers transferred during year to transformer stations, Abitibi- Sudbury district.....	\$134,300.00	
Cost of insulators transferred to Eastern Ontario system transformer stations.....	684.50	
Cost of certain office furniture transferred to office furniture account of Commission.....	1,523.91	
		136,508.41
		<u>\$192,467.03</u>

**MISCELLANEOUS**

Appropriations by Legislature and by Treasury Board Minute .....	\$148,000.00	
Cash advances to the Commission out of such appropriations and Treasury Board Minute.....	\$148,000.00	
Unexpended balance as at October 31, 1934 returnable to the Province.....	5,593.53	
		\$142,406.47
Capital expenditure by the Commission:		
On new administration building.....	\$140,327.57	
On service building and equipment.....	2,078.90	
		<u>\$142,406.47</u>

RURAL POWER DISTRICTS—SUMMARY

Statement showing the Total Capital Expenditures to October 31, 1934 on the construction of Primary and Secondary lines in Rural Power Districts; the portion thereof in course of construction; the investment in lines in operation; the amounts of the Grants (fifty per cent of both Primary and Secondary lines) payable to the Commission by the Province of Ontario; also the extents to which Grants stand authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the amounts of such Grants paid over by the Province to the Commission under such authorization up to October 31, 1934

System	Total capital expenditure	In course of construction	In operation	*Grants (50% of primary and secondary lines) payable by the Province	Extents to which grants stand authorized by orders-in-council	Grants paid by Province to Commission under such authorizations
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Niagara system.....	13,190,128.61	23,662.95	13,166,465.66	6,552,304.47	7,439,432.44	6,549,825.66
Georgian Bay system.....	1,589,662.16	4,290.29	1,585,371.87	755,997.57	872,658.99	755,997.57
Thunder Bay system.....	117,137.84		117,137.84	58,568.92	71,685.50	58,568.92
Manitoulin district.....	59,835.30		59,835.30	29,460.55	31,806.50	29,460.55
Nipissing district.....	44,758.67		44,758.67	22,007.46	23,659.50	22,007.46
Eastern Ontario system including Ottawa and Madawaska districts.....	3,305,988.69	2,832.39	3,303,156.30	1,635,740.58	1,854,027.65	1,635,518.16
Totals.....	18,307,511.27	30,785.63	18,276,725.64	9,054,079.55	10,293,270.58	9,051,378.32
Additional sum authorized by above Orders-in-Council and paid over to the Commission but not allocated as between rural power districts.....						33,729.78
						9,085,108.10

NOTE:—

The cash paid over by the Province to the Commission up to October 31, 1934 on account of authorized grants to rural power districts—as above set out—amounts to..... \$9,085,108.10

The Grants payable by the Province—as above set out—in respect of rural power districts as at October 31, 1934, amount in the aggregate to..... 9,054,079.55

A balance of..... \$31,028.55

Which balance represents:

(a) Grant funds in the hands of the Commission at October 31, 1934, not allocated but to apply against the construction of authorized rural power districts and extension to existing districts..... \$33,729.78

Less:

(b) Grants (or balance thereof) payable by the Province to the Commission in respect of certain rural power districts completed, or under construction..... 2,701.23

NOTE:—\*Grants not made by Province in respect of a summer resort, street lighting systems in 62 districts, service buildings in 2 districts and amounts paid for business already established in 9 rural distribution systems purchased from private companies.





## SECTION X

### MUNICIPAL ACCOUNTS

#### **And Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission of Ontario**

The Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing systems and operating with energy supplied by or through the Hydro-Electric Power Commission.

Financial statements prepared from the books of these "Hydro" utilities are submitted herein to show how each has operated during the past year, and its financial status at the present time. Other tables give useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the electrical utilities in all municipalities which have contracted with The Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with an accounting system designed by the Commission.

Periodical inspections are made of the books of all "Hydro" electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities much of the bookkeeping for the electrical utilities is performed by representatives of the municipal accounting department of the Commission as a measure of economy. This arrangement insures the correct application of the standard accounting system, with resultant uniformity in classification of revenues and expenditures; secures true reflections of the actual operating results for the year, and greatly enhances the comparative values of the reports.

The first financial statement in this section presents consolidated balance sheets for each year since 1912, and thus shows the march of progress. It combines the balance sheets of the local municipal utilities of all the systems.

It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$91,675,564.93 in 1934, and the total assets from \$11,907,826.86 to \$140,111,145.54. The liabilities have not increased in the same proportion as the assets, rising from \$10,468,351.79 to \$46,608,590.26. The reasons for this are the regular fulfilment of debt retirement schedules under serial debenture provisions or by maturity of sinking funds, and also the fact that much of the cost of the increasing plant value has been financed out of reserves and surplus without increasing the capital liabilities of the respective utilities. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; being from 88.0 per cent in 1913 to 35.9 per cent in 1934. The equities in the Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for each year since "Hydro" service was inaugurated and combines the results from the local municipal utilities of all the systems. After providing for every cost of operation and fixed charges, including the standard provision for depreciation, the combined operating reports show a net surplus of \$685,489.13 for 1934.

The five statements, "A" to "E," following the two consolidated reports show the financial status of each municipal utility and the results of operations, giving classified information respecting revenue, operating costs, number of consumers and consumption, cost of power to municipalities, power and lighting rates charged to consumers, etc. In statements "A" and "B," the municipalities are arranged alphabetically under each system; in statement "D" the municipalities are arranged in three groups—cities, towns and small municipalities; in statements "C" and "E" all municipalities are arranged alphabetically.

**Statement "A"** presents the balance sheet of each electrical utility. The plant values are shown under the general subdivisions specified in the standard accounting system and the other items on the positive side of the ledger which are included in total assets are self-explanatory with the exception, perhaps, of the item entitled "equity in H-E.P.C. systems." The sinking fund portion of the cost paid year by year to the Commission for power is for the purpose of ultimately retiring the capital liabilities incurred by the Commission on behalf of the municipalities. A municipality's aggregate equity in the Commission's systems at any time is the total of the sinking fund payments that have been credited to it, together with interest. The total sinking fund equity acquired by these municipalities to the end of 1934 is shown in the consolidated balance sheet to be \$29,274,340.46.

In conformity with a policy of service at cost to the customer, refunds by cash or credit were made during the year in many municipalities from surplus funds accrued to the credit of municipal services, such as street lighting, water works, sewage disposal, etc., and to individual customers. The amounts of the accumulated surpluses rebated equalled, in different municipalities, from five per cent to twenty-five per cent of the previous year's revenue. The total thus returned to customers during the year 1934 amounted in round figures to \$185,000.00.



In each case the balance sheet includes the credit or charge representing the difference between the monthly payments for power at interim rates and the cost of power as ascertained by the Commission upon annual adjustment.

The reserves for depreciation, and the acquired equity in the Hydro-Electric Power Commission's systems, are listed individually and totalled; and under the heading "surplus" are included not only the free operating surplus but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The depreciation reserve now amounts to 21.4 per cent of the total depreciable plant, while the depreciation reserve and surplus combined have already reached the sum of \$62,171,394.01, approximately 67.8 per cent of the total plant cost.

**Statement "B"** shows detailed operating reports for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure and the sums set aside for depreciation. The population served by each local utility, and the number of consumers of each class are also shown.

The item "power purchased" in this statement includes the debit or credit balances ascertained by the annual adjustment of the cost of power supplied to the municipalities by the Commission.

Of the 282 municipal electric utilities included in this statement, 215 received from consumers revenue sufficient to meet in full all operating expenses, interest, debt retirement instalments, and standard depreciation reserve allocation and to yield an aggregate net surplus of \$765,656.13 for the year; 54 were able to defray out of revenue all such charges except a portion of the standard depreciation allocation aggregating \$71,776.01; in the case of 13 utilities the revenue was less than the total of operating expenses, interest and debt retirement instalments by \$3,685.99.

**Statement "C"** shows the installation of street lights in each municipality together with the rates approved by this Commission, the revenue for 1934 and the cost per capita in each municipality.

**Statement "D"** presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average horsepower supplied by the municipal utility.\* For further reference to this informative statement, consult the special introduction to it on page 402.

**Statement "E"** presents the cost per horsepower of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1934, for domestic service, for commercial light service and for power service.

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\*The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

## CONSOLIDATED

YEAR.....	1913	1914	1915
Number of municipalities included.....	45	69	99
<b>ASSETS</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
Lands and buildings.....	626,707.34	791,732.20	873,838.18
Substation equipment.....	1,090,875.69	1,476,087.84	1,582,062.56
Distribution system—overhead.....	2,690,834.74	3,422,763.93	4,234,626.05
Distribution system—underground.....	644,514.24	807,153.53	928,420.77
Line transformers.....	615,546.20	787,613.52	981,754.70
Meters.....	840,606.64	1,172,475.11	1,418,165.08
Street lighting equipment—regular.....	900,614.80	1,071,255.37	1,309,628.49
Street lighting equipment—ornamental.....	62,765.34	270,386.55	197,644.82
Miscellaneous construction expenses.....	866,551.89	2,062,035.90	1,701,182.66
Steam or hydraulic plant.....	1,401,175.28	420,108.33	461,651.60
Old plant.....	341,277.00	619,513.12	1,184,372.86
<b>Total plant.....</b>	<b>10,081,469.16</b>	<b>12,901,125.40</b>	<b>14,873,347.77</b>
Bank and cash balance.....	450,887.97	422,350.12	284,653.96
Securities and investments.....			
Accounts receivable.....	344,487.95	561,873.08	602,920.69
Inventories.....	540,274.58	615,226.76	726,556.76
Sinking fund on local debentures.....	431,747.27	625,217.03	868,983.78
Equity in H-E.P.C. systems.....			
Other assets.....	58,959.93	123,410.97	326,801.11
<b>Total assets.....</b>	<b>11,907,826.86</b>	<b>15,249,203.36</b>	<b>17,683,264.07</b>
<b>LIABILITIES</b>			
Debenture balance.....	8,711,308.37	10,678,078.36	11,831,811.03
Accounts payable.....	1,553,711.45	1,682,150.29	2,040,038.01
Bank overdraft.....	160,919.16	228,622.50	292,106.44
Other liabilities.....	42,412.81	113,838.66	37,388.31
<b>Total liabilities.....</b>	<b>10,468,351.79</b>	<b>12,702,689.81</b>	<b>14,201,343.79</b>
<b>RESERVES</b>			
For equity in H-E.P.C. systems.....			
For depreciation.....	478,145.88	850,618.07	1,337,739.73
Other reserves.....			
<b>Total reserves.....</b>	<b>478,145.88</b>	<b>850,618.07</b>	<b>1,337,739.73</b>
<b>SURPLUS</b>			
Debentures paid.....	202,751.26	320,129.10	394,466.22
Local sinking fund.....	431,747.27	625,217.03	868,983.78
Operating surplus.....	326,830.66	750,549.35	880,730.55
<b>Total surplus.....</b>	<b>961,329.19</b>	<b>1,695,895.48</b>	<b>2,144,180.55</b>
<b>Total liabilities, reserves and surplus.....</b>	<b>11,907,826.86</b>	<b>15,249,203.36</b>	<b>17,683,264.07</b>
Percentage of net debt to total assets.....	88.0	88.3	80.3

NOTE.—In computing the “percentage of net debt to total assets” the ornamental street lighting capital, sinking fund on local debentures, and equity in H-E.P.C. systems, are excluded from assets; and the total liabilities are reduced by the amount of the local sinking

## BALANCE SHEET

1916	1917	1918	1919	1920	1921
128	143	166	191	195	215
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,335,936.33	1,546,241.41	1,859,888.69	1,995,545.83	2,175,568.24	3,230,985.63
1,934,626.12	2,471,293.82	2,820,488.70	2,915,125.56	3,231,050.80	5,403,689.90
4,832,353.27	6,090,073.42	6,627,237.39	7,445,820.31	8,579,881.49	8,397,361.48
1,095,709.62	1,157,059.90	1,216,288.59	1,206,296.88	1,313,369.29	1,401,135.97
1,179,132.07	1,483,839.44	1,772,691.35	2,073,113.45	2,560,581.59	3,077,649.83
1,711,299.49	1,999,095.48	2,238,143.70	2,587,566.32	3,053,135.20	3,552,076.79
1,251,057.13	1,237,734.69	1,200,625.65	1,206,638.71	1,269,006.98	1,335,997.13
306,388.95	361,975.74	531,502.61	546,497.68	557,678.13	610,586.70
2,059,263.42	2,184,015.84	2,395,096.50	2,530,101.08	2,697,636.12	3,030,134.16
864,500.01	896,753.20	214,575.75	986,200.57	757,194.47	704,848.46
759,748.66	649,852.51	1,476,413.00	805,959.89	864,298.39	912,388.55
17,330,015.07	20,077,935.45	22,352,951.93	24,298,866.28	27,059,400.70	31,656,854.60
1,061,029.90	340,026.50	391,194.91	462,437.23	943,858.12	900,842.34
695,152.23	1,285,097.33	1,124,018.44	627,076.53	341,855.88	477,678.69
764,504.59	1,261,398.36	972,996.96	1,921,166.69	2,022,538.88	2,155,788.62
1,166,017.73	1,337,578.96	1,663,298.05	1,032,569.75	1,400,671.89	1,504,596.28
342,215.87	125,240.05	444,787.63	1,925,455.77	2,244,004.34	2,541,718.35
			369,071.89	577,584.06	795,570.51
			86,216.05	25,447.07	78,929.84
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94	40,111,979.23
15,058,641.57	15,593,773.61	17,209,217.70	18,133,462.44	19,268,072.04	21,619,220.99
969,187.75	1,537,669.11	1,007,727.79	1,420,926.66	1,840,137.54	1,887,567.93
178,413.26	886,177.94	576,816.49	403,235.57	514,671.99	989,099.98
491,874.90	429,104.20	350,013.21	670,271.90	642,293.65	938,368.84
16,698,117.48	18,446,724.86	19,143,775.19	20,627,896.57	22,265,175.22	25,434,257.74
			373,871.89	577,584.06	800,249.05
1,843,804.68	2,463,723.83	3,133,550.17	3,750,162.28	4,788,645.03	5,491,858.93
1,843,804.68	2,463,723.83	3,133,550.17	4,124,034.17	5,366,229.09	6,292,107.98
549,778.59	694,797.90	920,076.56	1,328,657.68	1,440,156.52	1,860,079.53
1,165,785.94	1,340,615.38	1,662,602.69	1,754,020.37	2,246,474.47	2,541,718.35
1,101,448.70	1,481,414.68	2,089,243.31	2,888,251.40	3,297,325.64	3,983,815.63
2,817,013.23	3,516,827.96	4,671,922.56	5,970,929.45	6,983,956.63	8,385,613.51
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94	40,111,979.23
78.4	75.5	71.0	67.9	65.4	64.7

fund reserve, and the liability in respect to the street lighting capital, which amount is included in other liabilities.



## CONSOLIDATED

YEAR.....	1922	1923	1924	1925
Number of municipalities included.....	226	235	248	247
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....	3,334,522.68	4,488,054.93	4,561,648.92	5,768,855.99
Substation equipment.....	5,046,857.98	6,015,919.75	6,800,238.00	8,543,166.55
Distribution system—overhead.....	11,165,330.24	13,135,581.76	14,182,190.33	16,837,535.57
Distribution system—underground.....	1,598,053.02	1,959,120.41	2,873,446.13	3,388,837.09
Line transformers.....	3,618,684.73	4,211,655.89	4,456,669.02	5,079,754.23
Meters.....	4,033,689.52	4,548,933.73	5,149,629.71	5,533,483.92
Street lighting equipment—regular.....	1,419,016.05	1,061,473.85	1,134,491.77	1,256,916.53
Street lighting equipment—ornamental.....	666,084.50	708,431.22	728,298.08	893,186.48
Miscellaneous construction expenses.....	3,261,495.74	3,681,274.88	4,168,262.21	4,485,110.96
Steam or hydraulic plant.....	565,158.54	566,619.86	4,196,803.45	568,912.49
Old plant.....	7,997,947.87	8,051,496.28	5,587,420.31	4,549,142.46
Total plant.....	42,706,840.87	48,428,562.56	53,839,097.93	56,904,902.27
Bank and cash balance.....	1,164,336.24	1,276,140.06	1,748,912.34	1,700,145.30
Securities and investments.....	443,938.18	1,153,424.47	1,329,622.58	1,095,662.92
Accounts receivable.....	3,874,317.14	3,198,769.34	3,898,751.89	3,417,558.86
Inventories.....	1,738,795.96	1,819,711.62	1,745,628.16	1,711,504.13
Sinking fund on local debentures.....	3,416,231.45	3,896,261.28	4,520,723.06	5,202,451.70
Equity in H-E.P.C. systems.....	1,543,434.12	2,929,603.94	5,420,567.58	7,551,588.70
Other assets.....	238,940.13	190,071.63	250,292.77	137,280.05
Total assets.....	55,126,834.09	62,892,544.90	72,753,596.31	77,721,093.93
<b>LIABILITIES</b>				
Debenture balance.....	30,454,186.12	33,056,501.29	38,005,162.50	37,919,225.01
Accounts payable.....	3,699,292.52	3,708,781.76	3,117,224.08	3,139,067.92
Bank overdraft.....	456,706.69	680,714.59	162,100.71	226,147.82
Other liabilities.....	586,203.02	1,517,828.47	1,780,564.27	1,075,914.83
Total liabilities.....	35,196,388.35	38,963,826.11	43,065,051.56	42,360,355.58
<b>RESERVES</b>				
For equity in H-E.P.C. systems.....	1,543,434.12	2,929,603.94	5,420,567.58	7,551,588.70
For depreciation.....	6,512,813.92	7,328,858.69	8,097,834.68	8,699,437.68
Other reserves.....				1,157,147.20
Total reserves.....	8,056,248.04	10,258,462.63	13,518,402.26	17,408,173.58
<b>SURPLUS</b>				
Debentures paid.....	3,104,591.15	2,852,038.38	3,530,610.35	4,440,138.34
Local sinking fund.....	3,416,231.45	3,896,261.28	4,520,723.06	5,202,451.70
Operating surplus.....	5,353,375.10	6,921,956.50	8,118,809.08	8,309,974.73
Total surplus.....	11,874,197.70	13,670,256.16	16,170,142.49	17,952,564.77
Total liabilities, reserves and surplus.....	55,126,834.09	62,892,544.90	72,753,596.31	77,721,093.93
Percentage of net debt to total assets.....	63.3	62.6	61.4	57.2

## BALANCE SHEET—Continued

1926	1927	1928	1929	1930	1931
251	252	256	260	267	275
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,111,162.54	6,486,426.89	7,024,646.76	7,469,451.46	7,936,974.31	8,407,664.48
9,505,501.77	15,088,905.14	16,866,186.21	18,102,792.13	19,485,056.28	21,013,956.74
18,654,240.54	16,689,462.41	17,688,050.68	18,108,016.82	19,220,326.48	19,918,355.76
3,689,569.95	3,278,382.58	3,559,288.16	4,823,369.60	4,932,189.05	5,361,627.24
5,538,605.24	5,985,521.37	6,549,674.64	7,312,742.17	7,953,090.23	8,649,875.07
5,963,162.51	6,346,660.59	6,839,802.90	7,405,478.91	7,840,948.07	8,106,202.88
1,309,608.30	1,399,314.06	1,486,646.24	1,594,183.25	1,780,785.67	2,205,613.18
1,103,660.23	1,184,035.82	1,203,706.65	1,458,349.64	1,520,891.01	1,456,742.91
3,456,777.71	3,360,671.09	3,394,626.92	3,483,487.78	3,996,747.77	3,827,132.05
628,909.57	607,320.00	619,880.93	489,097.57	139,587.28	458,374.05
4,655,422.59	5,095,555.90	5,032,089.26	5,093,378.75	5,322,690.14	7,146,437.96
60,616,620.95	65,522,255.85	70,264,599.35	75,340,348.08	80,129,286.29	86,551,982.32
2,136,290.79	3,014,832.48	1,342,367.07	858,733.68	2,722,250.12	2,738,319.67
1,400,316.43	1,696,237.66	1,837,140.51	2,001,088.81	1,909,439.11	1,999,846.42
3,508,817.87	3,715,770.72	4,097,446.13	4,683,201.97	4,481,006.92	3,957,972.78
1,397,667.83	1,412,729.41	1,220,186.10	1,365,033.53	1,242,994.51	1,276,531.01
5,599,675.01	6,398,909.77	7,071,273.69	7,753,613.88	8,396,255.47	8,735,050.84
8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40	17,346,372.44	20,103,275.76
33,151.81	31,942.45	153,275.04	152,260.86	173,030.05	174,879.28
82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26	116,400,634.91	125,537,858.08
39,602,533.48	42,891,361.57	42,597,175.78	42,930,127.74	45,091,808.06	44,594,400.03
3,118,684.78	2,988,621.90	3,074,634.25	3,132,145.03	3,001,186.21	5,382,306.13
163,725.53	252,362.52	253,143.81	412,056.69	405,663.14	312,575.54
1,087,795.08	1,154,810.24	1,258,610.23	1,621,378.17	1,642,771.59	1,909,986.13
43,972,738.87	47,287,156.23	47,183,564.07	48,095,707.63	50,141,429.00	52,199,267.83
8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40	17,346,372.44	20,103,275.76
9,360,322.27	10,319,889.05	11,140,795.68	11,911,154.49	12,885,387.51	13,748,049.68
947,970.23	1,002,916.69	1,117,257.63	1,437,371.26	1,574,655.74	1,693,129.83
18,355,161.03	21,466,011.40	24,584,150.87	28,103,391.15	31,806,415.69	35,544,455.27
5,493,879.83	6,648,767.38	7,928,907.61	9,194,253.59	10,728,279.15	13,150,040.37
5,599,675.01	6,398,909.77	7,071,273.69	7,962,121.20	8,396,255.47	8,735,050.84
9,317,954.48	10,135,039.22	11,544,489.21	13,553,672.69	15,328,255.60	15,909,043.77
20,411,509.32	23,182,716.37	26,544,670.51	30,710,047.48	34,452,790.22	37,794,134.98
82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26	116,400,634.91	125,537,858.08
55.5	54.2	50.8	47.8	46.0	44.1

## CONSOLIDATED BALANCE SHEET—Concluded

YEAR.....	1932	1933	1934
Number of municipalities included.....	280	282	282
<b>ASSETS</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
Lands and buildings.....	9,503,743.78	10,186,471.28	10,262,692.98
Substation equipment.....	22,288,781.68	22,306,800.94	22,327,618.75
Distribution system—overhead.....	20,866,767.32	21,152,681.20	21,353,725.80
Distribution system—underground.....	5,820,056.75	5,945,225.61	6,031,767.74
Line transformers.....	9,392,662.62	9,478,605.14	9,635,279.35
Meters.....	8,403,251.67	8,514,165.03	8,624,504.78
Street lighting equipment—regular.....	2,257,618.20	2,381,599.40	2,395,296.48
Street lighting equipment—ornamental.....	1,545,354.93	1,458,443.68	1,464,306.73
Miscellaneous construction expenses.....	4,120,926.11	4,040,859.74	3,907,359.92
Steam or hydraulic plant.....	498,231.69	502,978.62	494,932.96
Old plant.....	4,989,654.97	5,016,755.92	4,978,079.44
Other plants not distributed.....	200,000.00	200,000.00	200,000.00
Total plant.....	89,887,049.72	91,184,586.56	91,675,564.93
Bank and cash balance.....	3,185,442.00	1,696,489.24	2,215,914.31
Securities and investments.....	2,059,325.10	2,163,785.20	2,382,446.41
Accounts receivable.....	3,683,059.42	3,746,910.92	4,001,596.09
Inventories.....	1,232,209.52	1,226,043.30	1,110,705.38
Sinking fund on local debentures.....	9,099,210.61	9,386,176.58	9,161,419.77
Equity in H-E.P.C. systems.....	23,066,129.81	26,045,679.00	29,274,340.46
Other assets.....	163,637.79	253,581.84	289,158.19
Total assets.....	132,376,063.97	135,703,252.64	140,111,145.54
<b>LIABILITIES</b>			
Debenture balance.....	45,133,305.97	42,606,145.29	39,646,989.68
Accounts payable.....	3,512,724.58	3,320,485.45	3,149,035.07
Bank overdraft.....	298,910.20	206,398.00	143,556.95
Other liabilities.....	3,740,376.11	3,787,725.14	3,669,008.56
Total liabilities.....	52,685,316.86	49,920,753.88	46,608,590.26
<b>RESERVES</b>			
For equity in H-E.P.C. systems.....	23,066,129.81	26,045,679.00	29,274,340.46
For depreciation.....	14,902,177.02	16,075,959.28	17,426,809.32
Other reserves.....	1,902,308.64	2,048,081.84	2,056,820.81
Total reserves.....	39,870,615.47	44,169,720.12	48,757,970.59
<b>SURPLUS</b>			
Debentures paid.....	15,244,778.28	17,651,367.71	20,608,129.73
Local sinking fund.....	9,099,210.61	9,386,176.58	9,161,419.77
Operating surplus.....	15,476,142.75	14,575,234.35	14,975,035.19
Total surplus.....	39,820,131.64	41,612,778.64	44,744,584.69
Total liabilities, reserves and surplus.....	132,376,063.97	135,703,252.64	140,111,145.54
Percentage of net debt to total assets.....	43.4	40.4	35.9



## CONSOLIDATED OPERATING REPORT

YEAR.....	1912	1913	1914	1915
Number of municipalities included	28	45	69	99
<b>EARNINGS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Domestic service.....		572,154.38	789,130.81	944,271.08
Commercial light service.....		525,438.16	673,803.92	720,209.26
Commercial power service.....		905,378.17	1,214,829.31	1,501,797.78
Municipal power.....				
Street lighting.....		560,925.56	698,409.71	835,970.87
Rural service.....				
Miscellaneous.....		53,543.24	57,482.41	68,046.29
Total earnings.....	1,617,674.00	2,617,439.51	3,433,656.16	4,070,295.28
<b>EXPENSES</b>				
Power purchased.....		789,632.87	1,045,752.65	1,484,666.00
Substation operation.....		78,394.81	97,658.90	107,607.31
Substation maintenance.....		18,698.46	31,790.99	25,935.56
Distribution system, operation and maintenance.....		104,114.51	130,998.65	154,409.71
Line transformer maintenance.....		8,547.61	11,764.32	11,508.92
Meter maintenance.....		5,222.19	9,536.07	12,899.14
Consumers' premises expenses.....		53,108.38	65,192.23	47,494.26
Street lighting, operation and maintenance.....		84,903.76	113,047.80	136,983.38
Promotion of business.....		72,303.51	86,683.02	74,402.55
Billing and collecting.....		77,351.76	103,560.71	131,541.27
General office, salaries and expenses.....		154,932.69	230,899.75	236,777.86
Undistributed expense.....		65,423.64	89,350.91	129,209.15
Interest.....		528,549.21	662,092.34	817,978.89
Sinking fund and principal payments on debentures.....		*	*	*
Total expenses.....	1,377,168.00	2,041,183.40	2,678,328.34	3,371,414.00
Surplus.....	240,506.00	576,256.11	755,327.82	698,881.28
Depreciation charge.....	124,992.47	262,675.24	357,883.31	414,506.99
Surplus less depreciation.....	115,513.53	313,580.87	397,444.51	284,374.29

\*Debenture payments included in "Interest."

## CONSOLIDATED

YEAR.....	1916	1917	1918	1919
Number of municipalities included	128	143	166	181
<b>EARNINGS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Domestic service.....	1,172,878.96	1,417,460.31	1,632,272.12	1,991,632.31
Commercial light service.....	812,130.78	899,023.72	968,399.42	1,175,143.56
Commercial power service.....	1,921,152.31	2,665,280.65	3,417,248.37	3,443,107.13
Municipal power.....				
Street lighting.....	930,057.43	967,495.10	902,875.55	988,900.95
Rural service.....				
Miscellaneous.....	147,381.50	120,805.39	161,243.70	228,270.65
Total earnings.....	4,983,601.03	6,070,065.17	7,082,039.16	7,827,054.60
<b>EXPENSES</b>				
Power purchased.....	1,959,446.83	2,573,879.37	2,807,769.33	3,284,490.68
Substation operation.....	153,761.08	203,091.20	238,257.34	217,638.89
Substation maintenance.....	46,131.53	42,129.04	60,805.92	81,853.63
Distribution system, operation and maintenance.....	154,247.17	169,326.24	223,347.81	286,310.76
Line transformer maintenance.....	14,528.17	25,328.95	30,488.83	42,509.12
Meter maintenance.....	24,218.48	44,461.55	63,155.56	78,726.64
Consumers premises expenses.....	52,602.01	61,765.14	65,149.59	84,301.24
Street lighting, operation and maintenance.....	145,471.50	157,857.73	196,157.18	215,963.86
Promotion of business.....	79,324.85	73,516.37	64,962.78	74,789.22
Billing and collecting.....	154,508.58	188,083.84	208,660.76	236,504.75
General office, salaries and expenses.....	306,709.35	349,932.05	421,680.15	452,131.22
Undistributed expense.....	97,333.97	102,938.80	117,474.07	190,690.09
Interest.....	951,781.99	1,085,180.80	1,238,425.53	1,285,571.51
Sinking fund and principal payments on debentures.....	*	*	*	*
Total expenses.....	4,140,065.51	5,077,491.08	5,736,334.85	6,531,481.61
Surplus.....	843,535.52	992,574.09	1,345,704.31	1,295,572.99
Depreciation charge.....	486,141.80	607,296.29	718,162.30	814,219.37
Surplus less depreciation.....	357,393.72	385,277.80	627,542.01	481,353.62

\*Debenture payments included in "Interest."

## OPERATING REPORT—Continued

1920	1921	1922	1923	1924	1925
186	205	214	224	241	242
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,546,345.30	3,149,080.03	3,786,608.23	5,166,452.24	5,993,231.07	6,439,159.86
1,512,854.63	1,851,501.76	2,158,306.34	3,260,772.50	3,566,227.22	3,866,292.79
3,752,188.22	3,895,437.46	4,383,912.97	5,927,666.37	6,222,865.88	6,568,854.77
532,279.09	654,531.01	973,263.38	1,161,598.60	1,352,966.47	1,923,093.09
1,005,535.11	1,060,357.77	1,160,446.81	1,269,604.48	1,356,668.97	1,415,382.22
168,919.95	145,566.57	105,877.09	116,639.06	75,100.24	37,975.18
189,778.63	225,467.70	187,689.39	316,311.21	231,663.58	286,451.08
9,707,900.93	10,981,942.30	12,756,104.21	17,219,044.46	18,798,723.43	20,537,208.99
4,216,667.87	4,876,650.31	6,636,853.37	8,699,026.67	9,669,789.40	11,063,123.34
285,407.35	314,838.35	315,443.70	474,442.13	430,056.09	417,921.71
102,050.81	104,798.01	100,763.67	133,815.53	202,050.04	207,497.63
344,551.57	487,918.33	519,252.16	636,477.41	648,700.62	686,344.54
46,323.09	65,088.46	52,932.26	75,920.10	82,936.50	75,473.28
123,701.18	116,722.97	107,806.88	139,104.81	141,231.23	156,909.55
116,283.52	134,854.92	143,388.88	218,682.02	237,316.20	252,808.47
236,930.79	297,481.52	297,363.86	299,579.08	269,973.30	275,316.60
78,294.85	101,804.46	129,932.63	184,371.00	202,060.74	217,102.24
295,942.88	321,685.71	338,153.50	444,306.92	490,273.30	521,134.01
559,695.29	656,268.11	605,852.50	937,463.47	889,907.66	891,640.29
256,400.33	308,874.42	385,895.03	359,206.91	494,078.50	520,584.58
1,431,807.16	998,611.47	1,074,657.44	1,615,205.16	1,779,991.26	1,889,810.95
*	532,183.96	635,469.90	990,907.14	1,122,798.87	1,294,027.29
8,094,056.69	9,317,781.00	11,343,765.78	15,208,508.35	16,661,163.71	18,469,694.48
1,613,844.24	1,664,161.30	1,412,338.43	2,010,536.11	2,137,559.72	2,067,514.51
902,028.75	1,044,434.85	715,814.24	916,782.75	973,649.62	1,068,880.42
711,815.49	619,726.45	696,524.19	1,093,753.36	1,163,910.10	998,634.09



## CONSOLIDATED

YEAR.....	1926	1927	1928
Number of municipalities included.....	248	251	255
<b>EARNINGS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Domestic service.....	7,372,602.62	8,189,866.89	8,925,050.56
Commercial light service.....	4,187,899.19	4,626,815.51	5,182,723.32
Commercial power service.....	6,789,217.54	7,342,173.20	8,298,669.44
Municipal power.....	1,922,512.34	1,913,502.88	1,921,300.97
Street lighting.....	1,457,686.21	1,489,242.37	1,534,476.98
Rural service—merchandise*	37,810.73	13,765.72	48,451.90*
Miscellaneous.....	471,134.15	581,913.04	465,791.92
Total earnings.....	22,238,862.78	24,157,279.61	26,376,465.09
<b>EXPENSES</b>			
Power purchased.....	12,185,669.10	13,505,583.77	14,688,570.08
Substation operation.....	450,416.84	430,211.76	420,512.48
Substation maintenance.....	286,520.37	275,148.86	247,647.88
Distribution system, operation and maintenance.....	795,514.70	758,747.10	736,159.85
Line transformer maintenance.....	74,876.11	94,706.38	88,676.18
Meter maintenance.....	189,603.70	214,813.87	218,530.96
Consumers' premises expense.....	275,020.62	285,352.68	291,333.03
Street lighting, operation and maintenance.....	295,869.37	318,395.79	329,597.16
Promotion of business.....	234,696.74	220,687.60	249,842.01
Billing and collecting.....	557,271.54	605,627.58	638,797.02
General office, salaries and expenses.....	786,742.60	824,868.90	844,578.55
Undistributed expense.....	460,288.30	531,003.80	542,755.34
Truck operation and maintenance.....			
Interest.....	1,985,233.73	2,063,698.00	2,111,049.49
Sinking fund and principal payments on debentures.....	1,347,511.92	1,505,626.31	1,601,711.32
Total expenses.....	19,925,235.64	21,634,472.40	23,009,761.35
Surplus.....	2,313,627.14	2,522,807.21	3,366,703.74
Depreciation charge.....	1,146,273.05	1,249,711.65	1,350,252.16
Surplus less depreciation.....	1,167,354.09	1,273,095.56	2,016,451.58

## OPERATING REPORT—Concluded

1929	1930	1931	1932	1933	1934
259	267	275	280	282	282
\$ c. 9,873,681.57 5,697,766.06 9,376,158.74 2,086,444.24 1,598,262.43 51,590.54* 522,780.95	\$ c. 10,542,903.89 5,961,383.23 9,340,653.28 2,111,482.38 1,674,528.03 28,954.60* 581,914.78	\$ c. 10,972,952.10 6,230,475.89 9,456,224.97 1,967,118.54 1,746,855.24 29,446.38* 511,139.80	\$ c. 11,447,307.85 6,243,794.01 9,356,693.88 1,859,585.35 1,783,972.46 11,069.27* 513,787.30	\$ c. 11,429,101.13 6,013,025.96 9,080,522.07 1,826,872.07 1,779,582.48 12,812.74* 485,925.43	\$ c. 11,844,033.10 6,206,086.35 9,692,784.37 1,875,969.80 1,777,596.69 18,747.73* 555,172.04
29,206,684.53	30,241,820.19	30,914,212.92	31,216,210.12	30,627,841.88	31,970,390.08
16,379,162.88 461,270.27 274,275.56  907,817.04 93,608.14 242,126.27 314,495.03  359,373.40 250,844.28 695,729.42 904,025.64 502,206.06 110,630.62 2,152,695.49  1,687,201.64	17,323,077.97 479,502.48 320,716.48  991,972.86 96,746.35 278,379.43 317,902.45  372,211.17 249,070.05 745,159.02 907,226.89 523,862.96 112,029.82 2,220,214.45  1,828,061.62	18,085,166.51 487,484.17 303,536.11  1,015,256.14 93,463.24 284,633.88 363,078.47  368,119.49 255,956.03 792,983.99 923,676.84 520,893.10 107,918.93 2,328,094.32  2,061,718.79	19,109,036.25 503,351.82 300,186.15  969,750.61 95,485.55 300,104.85 368,208.73  360,709.76 266,760.84 818,721.33 960,558.88 436,692.96 112,059.90 2,532,940.93  2,244,367.86	19,330,861.58 484,764.57 288,583.29  895,350.99 82,321.32 283,115.98 361,499.20  353,082.15 259,936.42 817,660.03 908,517.79 349,101.36 105,452.68 2,426,286.35  2,319,319.09	19,591,887.79 468,944.09 296,550.52  844,813.95 75,172.18 291,402.79 352,499.09  338,784.80 228,741.36 827,860.20 908,039.75 362,322.12 98,081.61 2,204,994.25  2,358,169.12
25,335,461.74	26,766,134.00	27,991,980.01	29,378,936.42	29,265,852.80	29,248,263.62
3,871,222.79 1,469,846.83	3,475,686.19 1,574,991.68	2,922,232.91 1,775,330.69	1,837,273.70 1,920,896.22	1,361,989.08 1,989,000.41	2,722,126.46 2,036,637.33
2,401,375.96	1,900,694.51	1,146,902.22	83,622.52 (loss)	627,011.33 (loss)	685,489.13

\*Profits from the sale of merchandise. Rural service now given in "Rural Power Districts." Consult Section IX.

## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig	Alvinston	Amherst- burg
Population.....	1,885	P.V.	468	690	3,128
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,545.45			133.56	
Substation equipment.....	1,847.39				932.00
Distribution system—overhead.....	23,731.31	8,549.88	7,571.03	14,008.12	33,992.16
Distribution system—underground.....					
Line transformers.....	10,819.41	3,686.18	1,746.09	2,905.49	15,917.83
Meters.....	10,740.33	2,576.73	2,443.67	2,972.37	15,598.85
Street light equipment, regular.....	1,873.97	802.74	404.09	1,090.62	812.44
Street light equipment, ornamental.....					5,598.72
Miscellaneous construction expense.....	2,486.09	93.20	492.36	791.52	1,635.40
Steam or hydraulic plant.....					
Old plant.....	3,481.50			773.85	
Total plant.....	56,525.45	15,708.73	12,657.24	22,675.53	74,487.40
Bank and cash balance.....	3,355.53	3,755.23	6,093.32	169.05	5,718.68
Securities and investments.....	4,500.00	1,000.00	3,000.00	2,000.00	
Accounts receivable.....	1,665.28	648.78	9.08	155.82	2,146.67
Inventories.....	759.47				
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	39,496.60	5,977.41	10,326.94	10,682.38	30,980.31
Other assets.....					2,824.91
Total assets.....	106,302.33	27,090.15	32,086.58	35,682.78	116,157.97
Deficit.....				5,049.80	
Total.....	106,302.33	27,090.15	32,086.58	40,732.58	116,157.97
LIABILITIES					
Debenture balance.....		2,830.46		11,344.36	20,171.58
Accounts payable.....			170.18	1,108.11	
Bank overdraft.....					
Other liabilities.....	680.34		75.00	17.23	7,139.27
Total liabilities.....	680.34	2,830.46	245.18	12,469.70	27,310.85
RESERVES					
For equity in H-E.P.C. systems.....	39,496.60	5,977.41	10,326.94	10,682.38	30,980.31
For depreciation.....	10,164.03	1,901.63	4,941.77	5,395.62	15,731.04
Other reserves.....					
Total reserves.....	49,660.63	7,879.04	15,268.71	16,078.00	46,711.35
SURPLUS					
Debentures paid.....	14,500.00	5,242.19	6,883.38	12,184.88	11,882.02
Local sinking fund.....					
Operating surplus.....	41,461.36	11,138.46	9,689.31		30,253.75
Total surplus.....	55,961.36	16,380.65	16,572.69	12,184.88	42,135.77
Total liabilities, reserves and surplus.....	106,302.33	27,090.15	32,086.58	40,732.58	116,157.97
Percentage of net debt to total assets.....	1.0	13.4	1.1	49.8	27.3

NOTE.—In computing the “percentage of net debt to total assets,” the ornamental street lighting capital, sinking fund on local debentures, and equity in H-E.P.C. systems, are excluded



“A”

## Hydro Municipalities as at December 31, 1934

Ancaster Twp.	Arkona 397	Aylmer 1,987	Ayr 773	Baden P.V.	Beachville P.V.	Belle River 719	Blenheim 1,702
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
		9,019.23	125.00	660.64	176.13		909.64
16,029.82	9,559.67	20,787.46	12,454.81	7,486.26	13,955.55	16,452.08	25,957.07
10,742.40	1,706.44	10,528.91	3,850.56	4,136.42	3,550.21	3,977.45	8,095.56
4,202.68	1,584.70	9,718.02	3,664.41	3,025.55	3,142.06	3,683.98	9,127.44
1,291.08	718.90	1,742.09	628.42	447.45	444.23	924.29	3,368.26
							1,482.97
324.93	222.10	1,122.18	941.79		602.04	1,034.78	994.91
	1,030.30	6,719.17	4,002.53				
32,590.91	14,822.11	59,637.06	25,667.52	15,756.32	21,870.22	26,072.58	49,935.85
		2,347.64		4,457.97	893.95	2,782.06	5,818.67
		12,000.00			4,000.00	3,000.00	
1,869.03	172.14	2,313.98	659.39	357.02	418.02	1,538.10	698.50
		70.61					26.84
9,432.10	3,415.16	25,372.96	9,069.93	20,951.67	26,195.49	5,846.56	23,423.97
		103.00	517.29				
43,892.04	18,409.41	101,845.25	35,914.13	41,522.98	53,377.68	39,239.30	79,903.83
	1,992.21						
43,892.04	20,401.62	101,845.25	35,914.13	41,522.98	53,377.68	39,239.30	79,903.83
7,612.92	9,141.90	18,857.01	6,581.43	1,882.06	2,052.05	5,040.53	8,021.78
847.95	2,267.03	140.14		4.77	47.87	255.44	402.23
1,069.44	1.99		132.18				
165.32		103.00				121.00	1,682.97
9,695.63	11,410.92	19,100.15	6,713.61	1,886.83	2,099.92	5,416.97	10,106.98
9,432.10	3,415.16	25,372.96	9,069.93	20,951.67	26,195.49	5,846.56	23,423.97
6,822.77	1,604.61	10,922.63	4,253.68	1,974.83	5,406.88	5,368.02	11,385.37
		390.62	25.00			5,000.00	
16,254.87	5,019.77	36,686.21	13,348.61	22,926.50	31,602.37	16,214.58	34,809.34
3,176.66	3,970.93	19,844.91	10,921.95	3,117.94	3,300.95	3,459.47	5,978.22
14,764.88		26,213.98	4,929.96	13,591.71	16,374.44	14,148.28	29,009.29
17,941.54	3,970.93	46,058.89	15,851.91	16,709.65	19,675.39	17,607.75	34,987.51
43,892.04	20,401.62	101,845.25	35,914.13	41,522.98	53,377.68	39,239.30	79,903.83
28.1	76.1	24.9	25.1	9.2	7.7	16.2	15.7

from assets; and the total liabilities are reduced by the amount of the local sinking fund reserve, and the liability in respect to the street lighting capital, which amount is included in other liabilities.

## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Blyth	Bolton	Bothwell	Brampton	Brantford
Population.....	626	553	685	5,550	30,611
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				5,355.12	86,967.53
Substation equipment.....				24,742.53	162,963.03
Distribution system—overhead.....	11,286.08	9,931.57	6,049.46	50,147.16	231,783.46
Distribution system—underground					
Line transformers.....	2,441.35	4,296.34	2,753.37	30,179.67	111,208.51
Meters.....	1,945.31	3,019.46	2,867.97	26,798.82	118,494.12
Street light equipment, regular.....	1,284.19	856.19	203.51	2,645.94	24,032.64
Street light equipment, ornamental			4,431.19		41,476.69
Miscellaneous construction expense	280.63	1,050.06	528.65	18,218.69	30,625.19
Steam or hydraulic plant.....					
Old plant.....	2,332.68	1,554.60			6,000.00
Plant not distributed.....					200,000.00
Total plant.....	19,570.24	20,708.22	16,834.15	158,087.93	1,013,551.17
Bank and cash balance.....	1,974.16	1,829.88	2,475.70	4,607.94	82,973.87
Securities and investments.....			11,000.00	5,107.14	
Accounts receivable.....	981.71	255.08	177.26	3,474.41	37,023.72
Inventories.....				134.55	13,674.94
Sinking fund on local debentures					27,893.93
Equity in H-E.P.C. systems.....	5,601.56	11,594.40	11,986.22	103,319.95	530,929.09
Other assets.....					24,120.13
Total assets.....	28,127.67	34,387.58	42,473.33	274,731.92	1,730,166.85
Deficit.....					
Total.....	28,127.67	34,387.58	42,473.33	274,731.92	1,730,166.85
LIABILITIES					
Debenture balance.....	7,965.97	5,449.75	2,864.86	10,889.55	*177,250.00
Accounts payable.....			40.87	2,010.88	62,643.61
Bank overdraft.....					
Other liabilities.....	105.00		1,161.22		169,414.23
Total liabilities.....	8,070.97	5,449.75	4,066.95	12,900.43	409,307.84
RESERVES					
For equity in H-E.P.C. systems.....	5,601.56	11,594.40	11,986.22	103,319.95	530,929.09
For depreciation.....	3,224.77	5,479.64	6,309.07	46,379.33	225,652.95
Other reserves.....				153.89	88,159.20
Total reserves.....	8,826.33	17,074.04	18,295.29	149,853.17	844,741.24
SURPLUS					
Debentures paid.....	8,303.06	7,050.25	2,669.33	58,161.09	352,750.00
Local sinking fund.....					27,893.93
Operating surplus.....	2,927.31	4,813.54	17,441.76	53,817.23	95,473.84
Total surplus.....	11,230.37	11,863.79	20,111.09	111,978.32	476,117.77
Total liabilities, reserves and surplus	28,127.67	34,387.58	42,473.33	274,731.92	1,730,166.85
Percentage of net debt to total assets	35.8	23.9	11.3	7.5	33.0

\*Includes a balance of \$117,192.76 on purchase agreement.

## "A"—Continued

## Hydro Municipalities as at December 31, 1934

Brantford Twp.	Bridgeport P.V.	Brigden P.V.	Brussels 766	Burford P.V.	Burgess- ville P.V.	Caledonia 1,475	Campbell- ville P.V.
		101.03		202.00			
1,192.71							
52,904.09	9,643.35	7,095.84	13,614.29	9,241.18	3,490.03	17,862.19	2,978.42
17,010.33	3,979.30	2,060.02	2,402.70	2,983.01	1,390.44	6,432.74	718.23
12,030.90	2,217.15	2,238.85	3,853.17	3,374.95	966.40	6,337.55	567.30
4,423.83	1,602.69	464.90	1,574.74	425.14	261.02	1,582.94	283.06
2,913.79	563.56	888.11	1,572.29	710.03	457.22	751.15	45.82
		1,381.00	2,827.50				
90,475.65	18,006.05	14,229.75	25,844.69	16,936.31	6,565.11	32,966.57	4,592.83
1,453.06		596.56	5,389.35	2,074.92	5.61	590.41	624.60
586.06	344.07	61.64	367.38	4,000.00		2,000.00	1,000.00
				528.65	90.65	506.93	270.46
3,670.34							
18,138.49	3,071.37	7,753.45	7,802.49	8,456.43	3,481.08	13,726.27	1,344.24
1,542.65	75.83	10.00		38.00			
115,866.25	21,497.32	22,651.40	39,403.91	32,034.31	10,142.45	49,790.18	7,832.13
115,866.25	21,497.32	22,651.40	39,403.91	32,034.31	10,142.45	49,790.18	7,832.13
20,028.19	11,306.47	617.84	12,216.75		290.94	1,525.51	3,320.81
	343.07	4.80	1,769.37	5.66	206.90		112.87
	24.94						
1,542.65	75.00	10.00		38.00			
21,570.84	11,749.48	632.64	13,986.12	43.66	497.84	1,525.51	3,433.68
18,138.49	3,071.37	7,753.45	7,802.49	8,456.43	3,481.08	13,726.27	1,344.24
19,376.10	4,955.00	3,416.14	4,598.41	4,438.38	2,440.03	3,165.78	794.54
35.47		81.67			85.41		
37,550.06	8,026.37	11,251.26	12,400.90	12,894.81	6,006.52	16,892.05	2,138.78
37,097.47	1,061.56	7,382.16	8,783.25	9,000.00	3,209.06	3,098.49	2,126.96
3,670.34							
15,977.54	659.91	3,385.34	4,233.64	10,095.84	429.03	28,274.13	132.71
56,745.35	1,721.47	10,767.50	13,016.89	19,095.84	3,638.09	31,372.62	2,259.67
115,866.25	21,497.32	22,651.40	39,403.91	32,034.31	10,142.45	49,790.18	7,832.13
17.7	63.6	4.2	44.3	0.0	7.6	4.2	52.9



## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Cayuga	Chatham	Chippawa	Clifford	Clinton
Population.....	693	16,140	1,051	440	1,848
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....		46,616.76	631.50		8,760.82
Substation equipment.....		116,587.41			7,544.43
Distribution system—overhead.....	14,301.70	161,717.23	19,123.86	7,590.95	23,166.21
Distribution system—underground.....		79,554.42			
Line transformers.....	3,162.29	87,055.49	6,107.56	1,062.76	8,387.85
Meters.....	2,783.22	68,572.57	4,702.80	2,236.32	9,450.39
Street light equipment, regular.....	942.83	18,839.01	1,877.81	687.42	1,299.53
Street light equipment, ornamental.....		35,426.10			
Miscellaneous construction expense.....	476.26	33,018.76	1,104.69	37.44	3,759.14
Steam or hydraulic plant.....					
Old plant.....		42,752.31			10,658.09
Total plant.....	21,666.30	690,140.06	33,548.22	11,614.89	73,026.46
Bank and cash balance.....	1,752.86	25,627.89	1,222.90	326.99	1,178.38
Securities and investments.....					3,000.00
Accounts receivable.....	510.06	22,504.89	261.73	346.24	1,104.72
Inventories.....	142.48	4,325.75		16.32	2,431.43
Sinking fund on local debentures.....					35,146.72
Equity in H-E.P.C. systems.....	5,318.80	244,910.27	10,688.98	3,866.53	29,163.38
Other assets.....		4,343.12	157.69		
Total assets.....	29,390.50	991,851.98	45,879.52	16,170.97	145,051.09
Deficit.....	1.51				
Total.....	29,392.01	991,851.98	45,879.52	16,170.97	145,051.09
<b>LIABILITIES</b>					
Debenture balance.....	12,614.88	230,001.16	5,626.24	6,578.00	44,500.00
Accounts payable.....	450.51	22,621.42	176.27	71.43	26.27
Bank overdraft.....					
Other liabilities.....	45.00	39,769.22	150.00		308.81
Total liabilities.....	13,110.39	292,391.80	5,952.51	6,649.43	44,835.08
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	5,318.80	244,910.27	10,688.98	3,866.53	29,163.38
For depreciation.....	3,577.70	123,171.63	7,122.61	1,765.93	21,342.54
Other reserves.....		5,224.83			611.25
Total reserves.....	8,896.50	373,306.73	17,811.59	5,632.46	51,117.17
<b>SURPLUS</b>					
Debentures paid.....	7,385.12	139,998.84	7,723.76	1,422.00	
Local sinking fund.....					35,146.72
Operating surplus.....		186,154.61	14,391.66	2,467.08	13,952.12
Total surplus.....	7,385.12	326,153.45	22,115.42	3,889.08	49,098.84
Total liabilities, reserves and surplus.....	29,392.01	991,851.98	45,879.52	16,170.97	145,051.09
Percentage of net debt to total assets.....	54.4	36.1	17.0	54.0	12.0

## “A”—Continued

## Hydro Municipalities as at December 31, 1934

Comber P.V.	Cottam P.V.	Courtright 338	Dashwood P.V.	Delaware P.V.	Dorchester P.V.	Drayton 559	Dresden 1,469
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,328.96	9,344.64	6,550.80	3,410.51	3,767.08	8,540.27	9,331.97	523.00 18,583.38
3,422.04	1,661.26	1,225.40	1,600.44	914.44	3,286.91	3,328.48	7,524.07
2,459.87	1,778.79	880.37	1,378.45	962.46	2,411.76	3,283.78	6,023.66
384.93	366.43	425.08	353.42	148.08	549.95	673.50	1,127.48
970.94	219.20	558.67	291.87	203.81	328.41	401.02	824.32
							4,815.01
14,566.74	13,370.32	9,640.32	7,034.69	5,995.87	15,117.30	17,018.75	39,420.92
3,017.38	772.90	572.36	1,594.15	906.29	1,425.04	2,483.61	
	3,000.00		1,500.00	3,000.00	2,000.00	3,000.00	2,000.00
332.22	125.86	259.17	27.53	283.67	55.93	421.45	2,215.68
							522.72
12,377.19	2,241.59	3,442.98	5,320.48	1,807.27	4,472.71 17.00	7,548.33	19,749.25 125.00
30,293.53	19,510.67	13,914.83	15,476.85	11,993.10	23,087.98	30,472.14	64,033.57
30,293.53	19,510.67	13,914.83	15,476.85	11,993.10	23,087.98	30,472.14	64,033.57
1,136.07	6,490.85	2,879.39	2,013.49	2,008.95	2,323.83	6,109.82	
25.51	130.10	31.35	16.71	314.36	168.53	699.82	11.34
							178.66
14.01	120.00				17.00		125.00
1,175.59	6,740.95	2,910.74	2,030.20	2,323.31	2,509.36	6,809.64	315.00
12,377.19	2,241.59	3,442.98	5,320.48	1,807.27	4,472.71	7,548.33	19,749.25
4,780.09	2,778.63	1,328.15	2,129.52	1,019.58	1,938.97 64.15	5,616.51	4,264.18 192.44
17,157.28	5,020.22	4,771.13	7,450.00	2,826.85	6,475.83	13,164.84	24,205.87
6,563.93	2,509.37	5,258.96	1,386.51	1,991.05	1,976.17	3,390.18	16,238.25
5,396.73	5,240.13	974.00	4,610.14	4,851.89	12,126.62	7,107.48	23,274.45
11,960.66	7,749.50	6,232.96	5,996.65	6,842.94	14,102.79	10,497.66	39,512.70
30,293.53	19,510.67	13,914.83	15,476.85	11,993.10	23,087.98	30,472.14	64,033.57
6.6	39.0	27.8	20.0	22.8	13.4	29.7	0.4

## STATEMENT

## Balance Sheets of Electrical Departments of

**NIAGARA  
SYSTEM—Continued**

Municipality.....	Drumbo	Dublin	Dundas	Dunnville	Dutton
Population.....	P.V.	P.V.	5,032	3,632	798
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
<b>ASSETS</b>					
Lands and buildings.....			12,111.11	3,356.09	
Substation equipment.....			13,396.22	27,302.17	
Distribution system—overhead.....	4,603.91	5,787.61	50,214.11	37,445.86	9,094.18
Distribution system—underground					
Line transformers.....	1,537.50	897.65	19,610.94	18,380.09	3,425.25
Meters.....	1,863.92	874.11	19,728.73	16,419.24	3,347.25
Street light equipment, regular.....	262.27	544.86	10,834.15	8,012.37	659.31
Street light equipment, ornamental			1,154.52		
Miscellaneous construction expense	255.71	787.06	7,535.13	5,662.66	327.87
Steam or hydraulic plant.....					
Old plant.....			1,867.38	10,717.62	
Total plant.....	8,523.31	8,891.29	136,452.29	127,296.10	16,853.86
Bank and cash balance.....	3,712.63	593.82	12,054.79	4,479.00	1,016.61
Securities and investments.....			1,500.00	10,000.00	6,000.00
Accounts receivable.....	14.21	92.46	5,621.67	5,209.95	418.97
Inventories.....	53.63		376.45	971.14	11.56
Sinking fund on local debentures					
Equity in H-E.P.C. systems.....	4,038.57	3,689.72	89,560.24	36,067.19	12,290.97
Other assets.....			3,704.54		105.15
Total assets.....	16,342.35	13,267.29	249,269.98	184,023.38	36,697.12
Deficit.....		707.32			
Total.....	16,342.35	13,974.61	249,269.98	184,023.38	36,697.12
<b>LIABILITIES</b>					
Debenture balance.....	2,260.38	878.53	23,665.98	47,297.17	4,397.80
Accounts payable.....	62.92	800.03	170.07	5,980.12	63.99
Bank overdraft.....					
Other liabilities.....			4,859.06	1,360.35	47.36
Total liabilities.....	2,323.30	1,678.56	28,695.11	54,637.64	4,509.15
<b>RESERVES</b>					
For equity in H-E.P.C. systems....	4,038.57	3,689.72	89,560.24	36,067.19	12,290.97
For depreciation.....	3,197.76	3,284.86	44,821.06	27,572.00	6,206.56
Other reserves.....			508.52		
Total reserves.....	7,236.33	6,974.58	134,889.82	63,639.19	18,497.53
<b>SURPLUS</b>					
Debentures paid.....	2,239.62	5,321.47	29,334.02	28,202.83	4,009.69
Local sinking fund.....					
Operating surplus.....	4,543.10		56,351.03	37,543.72	9,680.75
Total surplus.....	6,782.72	5,321.47	85,685.05	65,746.55	13,690.44
Total liabilities, reserves and surplus	16,342.35	13,974.61	249,269.98	184,023.38	36,697.12
Percentage of net debt to total assets	18.9	17.5	17.4	37.0	18.5



## "A"—Continued

## Hydro Municipalities as at December 31, 1934

East Windsor 14,009	East York Twp.	Elmira 2,672	Elora 1,152	Embro 436	Erieau 273	Erie Beach 22	Essex 1,786
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
174,372.46	17,018.18 8,514.27 283,762.78	7,159.42	1,524.54				
76,203.19	79,950.50	15,439.13	7,316.65	3,039.64	1,550.23	613.17	35,995.24 442.55
60,486.73	141,189.38	12,656.94	5,854.36	2,091.28	2,372.21	680.28	15,011.34
89,295.42	20,694.53	1,377.20	1,235.43	535.73	246.10		10,804.74
3,897.65	14,551.29	3,533.56	1,260.23	69.45	379.90	375.03	1,548.10
		2,168.08	1,425.47	429.25			2,266.00
404,255.45	565,680.93	77,273.36	35,787.33	15,775.78	13,931.31	3,620.23	66,067.97
68,283.89	8,207.16	60.00	365.73	1,672.60	91.05	645.95	6,741.45
49,627.07	2,812.91		7,000.00	1,000.00			5,000.00
	25,666.99	221.95	573.21	632.47	378.46	295.52	1,354.66
	5,340.09		648.27				
139,261.93	137,501.58	51,067.54	24,632.20	7,183.10	3,433.22	854.37	17,634.36
	470.18	754.39	32.77			27.41	769.57
661,428.34	745,679.84	129,377.24	69,039.51	26,263.95	17,834.04	5,443.48	97,568.01
			352.63				
661,428.34	745,679.84	129,377.24	69,392.14	26,263.95	17,834.04	5,443.48	97,568.01
91,657.55	245,678.60	22,926.79	2,979.43	2,754.48	4,195.71	2,412.25	18,500.64
40,036.40	51,385.24	2,648.14	543.19	135.95			39.00
89,295.42	15,216.71	684.50	729.75		220.00	50.34	551.48
220,989.37	312,280.55	27,013.82	4,252.37	2,890.43	4,415.71	2,462.59	19,091.12
139,261.93	137,501.58	51,067.54	24,632.20	7,183.10	3,433.22	854.37	17,634.36
53,727.22	62,889.41	17,325.15	11,763.22	5,151.64	2,058.50	395.86	12,537.71
343.79	5,076.82			50.00			527.66
193,332.94	205,467.81	68,392.69	36,395.42	12,384.74	5,491.72	1,250.23	30,699.73
57,342.45	111,389.18	14,241.71	10,020.57	4,745.52	2,687.42	887.75	3,999.36
189,763.58	116,542.30	19,729.02	18,723.78	6,243.26	5,239.19	842.91	43,777.80
247,106.03	227,931.48	33,970.73	28,744.35	10,988.78	7,926.61	1,730.66	47,777.16
661,428.34	745,679.84	129,377.24	69,392.14	26,263.95	17,834.04	5,443.48	97,568.01
30.4	51.3	33.8	9.5	15.1	30.7	53.7	23.9

## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Etobicoke Twp.	Exeter	Fergus	Fonthill	Forest
Population.....		1,606	2,560	872	1,487
<b>ASSETS</b>	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	26,674.19	3,281.59			6,447.40
Substation equipment.....					
Distribution system—overhead.....	271,751.58	26,855.17	33,425.83	11,172.41	19,760.43
Distribution system—underground					
Line transformers.....	71,048.01	10,205.65	15,936.72	4,877.07	9,768.76
Meters.....	53,755.43	8,118.85	12,000.91	4,331.41	9,328.52
Street light equipment, regular	11,995.55	1,026.85	2,184.24	1,056.80	2,369.94
Street light equipment, ornamental	2,689.44				
Miscellaneous construction expense	4,804.24	2,111.92	958.68	3,839.65	961.54
Steam or hydraulic plant.....					
Old plant.....			2,546.59		11,042.87
<b>Total plant.....</b>	<b>442,718.44</b>	<b>51,600.03</b>	<b>67,052.97</b>	<b>25,277.34</b>	<b>59,679.46</b>
Bank and cash balance.....	200.00	6,865.11	2,421.59	700.18	4,520.21
Securities and investments.....		8,000.00			7,500.00
Accounts receivable.....	20,143.22	1,673.92	1,232.62	233.17	4,530.04
Inventories.....	5,616.84	1,318.57	108.37		1,815.11
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	106,902.55	25,838.84	32,735.24	3,286.68	18,861.78
Other assets.....	5,413.87		116.67	285.17	
<b>Total assets.....</b>	<b>580,994.92</b>	<b>95,296.47</b>	<b>103,667.46</b>	<b>29,782.54</b>	<b>96,906.60</b>
Deficit.....					
<b>Total.....</b>	<b>580,994.92</b>	<b>95,296.47</b>	<b>103,667.46</b>	<b>29,782.54</b>	<b>96,906.60</b>
<b>LIABILITIES</b>					
Debenture balance.....	173,269.43	7,202.67	17,361.12	15,825.56	9,545.26
Accounts payable.....	30,241.05	645.70	2,031.54	1,110.95	79.03
Bank overdraft.....	19,044.31				
Other liabilities.....	7,898.84	223.33	25.00	270.62	33.06
<b>Total liabilities.....</b>	<b>230,453.63</b>	<b>8,071.70</b>	<b>19,417.66</b>	<b>17,207.13</b>	<b>9,657.35</b>
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	106,902.55	25,838.84	32,735.24	3,286.68	18,861.78
For depreciation.....	68,364.19	10,515.55	8,324.33	1,895.46	12,681.92
Other reserves.....	943.68	85.90	350.00		50.00
<b>Total reserves.....</b>	<b>176,210.42</b>	<b>36,440.29</b>	<b>41,409.57</b>	<b>5,182.14</b>	<b>31,593.70</b>
<b>SURPLUS</b>					
Debentures paid.....	92,425.97	12,797.38	24,638.88	6,674.44	24,854.74
Local sinking fund.....					
Operating surplus.....	81,904.90	37,987.10	18,201.35	718.83	30,800.81
<b>Total surplus.....</b>	<b>174,330.87</b>	<b>50,784.48</b>	<b>42,840.23</b>	<b>7,393.27</b>	<b>55,655.55</b>
<b>Total liabilities, reserves and surplus</b>	<b>580,994.92</b>	<b>95,296.47</b>	<b>103,667.46</b>	<b>29,782.54</b>	<b>96,906.60</b>
Percentage of net debt to total assets	48.3	11.6	27.4	64.9	12.4

## "A"—Continued

## Hydro Municipalities as at December 31, 1934

Galt 14,057	George- town 2,224	Glencoe 827	Goderich 4,394	Granton P.V.	Guelph 21,048	Hagers- ville 1,355	Hamilton 153,504
\$ c.	\$ c.	\$c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
200,965.78			13,569.89		13,380.18		929,627.85
114,053.21			34,402.48		156,527.91	864.37	1,760,103.54
232,680.97	32,105.53	20,901.48	66,469.41	4,328.07	182,124.69	20,509.07	1,197,903.94
							845,155.42
117,319.63	18,366.51	6,311.20	18,009.06	1,533.55	85,655.07	9,850.72	891,783.94
67,805.06	13,619.00	4,202.13	18,755.56	1,516.40	91,669.03	8,583.45	637,047.62
72,792.17	1,364.67	1,726.23	4,853.77	163.37	42,483.85	1,040.67	279,067.95
24,130.89	2,584.28	3,365.25	5,711.07	113.08	14,022.90	1,136.73	197,728.09
	2,209.80		14,622.15				66,832.40
829,747.71	70,249.79	36,506.29	176,393.39	7,654.47	585,863.63	41,985.01	6,805,250.75
16,015.45	930.43	4,041.02	12,367.35	2,524.87	14,138.20	6,725.17	240,858.76
	7,743.29		1,000.00	2,000.00		12,000.00	
54,683.54	3,305.88	1,625.95	5,416.48	285.53	23,013.28	360.11	377,469.77
12,636.97	167.50		1,258.08		20,847.51	25.00	158,969.98
114,396.58					45,979.69		352,448.77
343,202.53	61,884.68	12,064.89	77,619.35	5,231.62	408,030.88	51,378.73	2,509,831.45
2,174.95	504.06	20.00			2,570.78		1,377.45
1,372,857.73	144,785.63	54,258.15	274,054.65	17,696.49	1,100,443.97	112,474.02	10,446,206.93
1,372,857.73	144,785.63	54,258.15	274,054.65	17,696.49	1,100,443.97	112,474.02	10,446,206.93
291,032.56	9,882.69	7,524.40	47,709.27	2,005.60	52,500.00	2,774.24	2,789,644.46
24,741.04	322.90		4,332.85	310.79	21,423.63	73.29	255,075.24
226.00	471.98	20.00	1,964.23		2,570.78		*1,743,381.62
315,999.60	10,677.57	7,544.40	54,006.35	2,316.39	76,494.41	2,847.53	4,788,101.32
343,202.53	61,884.68	12,064.89	77,619.35	5,231.62	408,030.88	51,378.73	2,509,831.45
243,684.22	20,293.13	7,659.56	60,773.15	2,335.61	118,386.23	8,512.89	973,970.26
33,850.80			1,051.61		1,337.88		208,127.56
620,737.55	82,177.81	19,724.45	139,444.11	7,567.23	527,754.99	59,891.62	3,691,929.27
226,969.39	10,117.31	12,588.48	48,378.78	1,494.40	92,499.99	5,225.76	1,429,380.66
114,396.58					45,979.69		352,448.77
94,754.61	41,812.94	14,400.82	32,225.41	6,318.47	357,714.89	44,509.11	184,346.91
436,120.58	51,930.25	26,989.30	80,604.19	7,812.87	496,194.57	49,734.87	1,966,176.34
1,372,857.73	144,785.63	54,258.15	274,054.65	17,696.49	1,100,443.97	112,474.02	10,446,206.93
22.0	12.9	17.8	27.5	18.6	4.3	4.7	58.4

\*Includes a balance of \$1,687,500.00 on purchase agreement.



## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Harriston	Harrow	Hensall	Hespeler	Highgate
Population.....	1,321	928	697	2,798	343
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....				4,474.73	
Substation equipment.....	600.00			27,951.51	
Distribution system—overhead.....	22,186.34	16,935.28	12,370.10	30,646.77	6,383.76
Distribution system—underground					
Line transformers.....	7,416.42	8,992.12	4,428.42	21,030.50	2,109.25
Meters.....	7,184.08	5,796.50	3,448.63	12,349.59	1,750.29
Street light equipment, regular	1,198.75	851.36	612.83	7,155.90	453.91
Street light equipment, ornamental					
Miscellaneous construction expense	880.57	269.68	535.99	1,306.77	508.13
Steam or hydraulic plant.....					
Old plant.....	1,001.43		400.00		
Total plant.....	40,467.59	32,844.94	21,795.97	104,915.77	11,205.34
Bank and cash balance.....	1,156.68	4,193.18	3,622.22	8,332.95	273.58
Securities and investments.....			4,000.00		2,000.00
Accounts receivable.....	818.77	1,207.24	83.21	2,293.55	197.36
Inventories.....	71.81			354.35	
Sinking fund on local debentures					
Equity in H-E.P.C. systems.....	21,007.34	12,915.13	9,656.41	64,440.55	6,421.85
Other assets.....				5.00	
Total assets.....	63,522.19	51,160.49	39,157.81	180,342.17	20,098.13
Deficit.....					
Total.....	63,522.19	51,160.49	39,157.81	180,342.17	20,098.13
<b>LIABILITIES</b>					
Debenture balance.....	9,475.78	7,700.37	6,664.14	33,015.99	
Accounts payable.....	1,642.02		784.44	1,284.98	
Bank overdraft.....					
Other liabilities.....		414.26	94.50	5.00	10.00
Total liabilities.....	11,117.80	8,114.63	7,543.08	34,305.97	10.00
<b>RESERVES</b>					
For equity in H-E.P.C. systems....	21,007.34	12,915.13	9,656.41	64,440.55	6,421.85
For depreciation.....	6,442.67	2,726.12	6,473.73	12,889.74	3,680.64
Other reserves.....				120.35	
Total reserves.....	27,450.01	15,641.25	16,130.14	77,450.64	10,102.49
<b>SURPLUS</b>					
Debentures paid.....	16,342.25	4,299.63	5,335.86	44,554.52	5,000.00
Local sinking fund.....					
Operating surplus.....	8,612.13	23,104.98	10,148.73	24,031.04	4,985.64
Total surplus.....	24,954.38	27,404.61	15,484.59	68,585.56	9,985.64
Total liabilities, reserves and surplus	63,522.19	51,160.49	39,157.81	180,342.17	20,098.13
Percentage of net debt to total assets	26.2	21.2	25.6	29.6	0.1

## "A"—Continued

## Hydro Municipalities as at December 31, 1934

Humber- stone 2,442	Ingersoll 5,104	Jarvis 531	Kingsville 2,354	Kitchener 31,252	Lambeth P.V.	La Salle 600	Leaming- ton 5,004
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	15,064.45	.....	7,774.09	179,685.67	.....	.....	16,387.58
.....	33,283.83	.....	.....	218,733.96	.....	.....	7,085.62
26,149.88	55,398.44	9,455.40	31,595.63	320,148.25	6,951.10	19,420.66	50,358.57
.....	.....	.....	.....	40,355.24	.....	.....	11,986.90
9,181.25	28,042.19	3,080.21	13,641.91	174,977.79	1,883.12	6,716.60	24,297.65
7,797.95	24,820.88	2,453.52	13,477.73	183,274.02	2,301.46	4,174.22	22,925.79
884.80	3,980.93	846.99	1,439.82	65,326.54	269.16	946.49	1,380.13
.....	4,597.59	.....	19,200.00	88,371.70	.....	.....	15,178.49
3,127.57	10,725.98	689.20	1,123.41	19,004.15	300.71	1,510.69	1,224.67
.....	.....	.....	.....	.....	.....	.....	.....
.....	19,098.54	.....	.....	52,363.91	.....	.....	.....
47,141.45	195,012.83	16,525.32	88,252.59	1,342,241.23	11,705.55	32,768.66	150,825.40
1,836.06	.....	4,168.22	4,473.34	75.00	523.20	8,365.51	14,553.73
.....	11,716.57	.....	8,000.00	15,000.00	1,000.00	.....	11,000.00
591.48	2,372.30	70.39	378.49	49,310.55	100.67	1,875.65	294.06
.....	1,062.73	.....	.....	9,727.17	.....	.....	.....
.....	72,631.06	.....	.....	.....	.....	.....	.....
11,183.77	115,594.19	8,786.49	23,734.07	781,227.72	5,913.61	7,853.54	44,229.84
1,245.41	1,044.53	.....	2,166.57	1,153.68	60.00	1,447.10	.....
61,998.17	399,434.21	29,550.42	127,005.06	2,198,735.35	19,303.03	52,310.46	220,903.03
.....	.....	.....	.....	.....	.....	.....	.....
61,998.17	399,434.21	29,550.42	127,005.06	2,198,735.35	19,303.03	52,310.46	220,903.03
17,900.00	79,800.00	6,108.46	27,914.80	175,060.79	.....	10,658.01	30,800.92
.....	11,042.08	420.74	1,719.49	47,837.91	.....	1,913.27	1,186.56
.....	734.69	.....	.....	7,681.74	.....	.....	.....
995.27	5,642.12	.....	20,920.00	89,525.38	60.00	427.06	17,605.05
18,895.27	97,218.89	6,529.20	50,554.29	320,105.82	60.00	12,998.34	49,592.53
11,183.77	115,594.19	8,786.49	23,734.07	781,227.72	5,913.61	7,853.54	44,229.84
2,669.45	15,715.79	2,585.52	16,199.17	268,144.95	3,195.95	6,079.44	22,308.90
.....	857.40	.....	664.42	27,159.14	.....	1,000.62	800.14
13,853.22	132,167.38	11,372.01	40,597.66	1,076,531.81	9,109.56	14,933.60	67,338.88
14,100.00	.....	4,391.54	5,585.20	337,089.21	4,000.00	4,841.99	17,199.08
.....	72,631.06	.....	.....	.....	.....	.....	.....
15,149.68	97,416.88	7,257.67	30,267.91	465,008.51	6,133.47	19,536.53	86,772.54
29,249.68	170,047.94	11,649.21	35,853.11	802,097.72	10,133.47	24,378.52	103,971.62
61,998.17	399,434.21	29,550.42	127,005.06	2,198,735.35	19,303.03	52,310.46	220,903.03
37.2	9.2	31.0	37.3	16.3	0	29.2	21.4

## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Listowel	London	London Twp.	Long Branch	Lucan
Population.....	2,775	73,726		3,550	528
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
<b>ASSETS</b>					
Lands and buildings.....	1,457.39	447,434.86			
Substation equipment.....		941,347.33			
Distribution system—overhead.....	39,070.65	783,202.09	17,454.12	52,163.07	10,577.48
Distribution system—underground.....	2,897.25	293,489.23			
Line transformers.....	17,556.07	290,893.97	5,734.63	11,950.28	4,131.49
Meters.....	16,326.87	329,931.51	4,019.50	17,126.43	3,154.40
Street light equipment, regular.....	1,853.82	67,797.91	861.36	4,212.21	430.15
Street light equipment, ornamental.....	1,348.66	84,746.73			
Miscellaneous construction expense.....	2,328.88	87,153.05	514.93	1,220.51	617.27
Steam or hydraulic plant.....					
Old plant.....	4,745.30		1,733.80		2,860.45
Total plant.....	87,584.89	3,325,996.68	30,318.34	86,672.50	21,771.24
Bank and cash balance.....	2,976.99	12,726.31	1,291.82		3,757.88
Securities and investments.....	7,000.00		4,000.00		5,000.00
Accounts receivable.....	1,551.04	307,602.23	1,378.16	2,049.41	8.95
Inventories.....		66,419.73			
Sinking fund on local debentures.....		349,490.78			
Equity in H-E.P.C. systems.....	45,689.81	1,416,043.89	9,502.15	8,831.29	12,242.49
Other assets.....		563.68	126.97	2,540.61	
Total assets.....	144,802.73	5,478,843.30	46,617.44	100,093.81	42,780.56
Deficit.....					
Total.....	144,802.73	5,478,843.30	46,617.44	100,093.81	42,780.56
<b>LIABILITIES</b>					
Debenture balance.....	5,869.18	852,163.12	10,148.52	23,364.48	4,052.53
Accounts payable.....	22.99	101,911.76	68.80	12,118.41	136.49
Bank overdraft.....					
Other liabilities.....	1,567.05	85,310.41	126.97	2,559.09	201.22
Total liabilities.....	7,459.22	1,039,385.29	10,344.29	38,041.98	4,390.24
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	45,689.81	1,416,043.89	9,502.15	8,831.29	12,242.49
For depreciation.....	29,399.34	899,601.37	5,016.81	15,361.50	7,800.45
Other reserves.....		81,703.45		423.00	
Total reserves.....	75,089.15	2,397,348.71	14,518.96	24,615.79	20,042.94
<b>SURPLUS</b>					
Debentures paid.....	37,320.71	729,736.88	8,851.48	16,940.12	7,161.09
Local sinking fund.....		349,490.78			
Operating surplus.....	24,933.65	962,881.64	12,902.71	20,495.92	11,186.29
Total surplus.....	62,254.36	2,042,109.30	21,754.19	37,436.04	18,347.38
Total liabilities, reserves and surplus.....	144,802.73	5,478,843.30	46,617.44	100,093.81	42,780.56
Percentage of net debt to total assets.....	6.3	16.6	27.6	41.7	14.3



## “A”—Continued

## Hydro Municipalities as at December 31, 1934

Lynden P.V.	Markham 1,060	Merlin P.V.	Merritton 2,487	Milton 1,804	Milverton 1,002	Mimico 6,696	Mitchell 1,497
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
241.18			2,951.67		237.20	17,077.41	22,562.48
4,774.11	15,781.10	8,062.22	32,689.04	11,868.94		38,461.02	21,287.83
			34,946.51	20,422.74	11,431.90	75,520.27	29,015.33
2,166.63	8,109.35	3,399.23	7,928.65	13,944.73	7,565.80	31,989.52	8,818.29
1,627.24	5,874.31	2,085.88	9,699.54	13,239.85	5,082.70	28,131.13	11,932.41
340.66	750.76	555.64	4,676.11	1,282.36	737.16	7,747.29	3,698.59
193.57	1,944.18	455.36	2,863.64	4,094.99	713.67	4,638.61	774.17
		241.85		3,092.54			1500.00
9,343.39	32,459.70	14,800.18	95,755.16	67,946.15	25,768.43	203,565.25	99,589.10
643.76	2,466.99	2,670.96	9,583.21	5,772.02	479.83	5,328.34	3,344.28
	2,000.00	6,000.00		12,000.00	2,000.00		1,000.00
500.18	575.53	112.48	3,615.31	3,476.36	2,213.81	5,795.55	5,126.77
				3,785.18			3,048.25
9,126.37	10,457.40	7,831.92	62,634.58	67,705.64	29,573.74	83,618.27	27,708.14
						5,234.53	
19,613.70	47,959.62	31,415.54	171,588.26	160,685.35	60,035.81	303,541.94	139,816.54
19,613.70	47,959.62	31,415.54	171,588.26	160,685.35	60,035.81	303,541.94	139,816.54
2,503.19	849.76	7,036.00	18,477.56	7,573.01	751.96	77,599.06	
257.00	977.13	57.90	2,595.12	145.71	1,575.08	1,826.50	645.93
	110.00	25.00		166.85		5,234.53	126.50
2,760.19	1,936.89	7,118.90	21,072.68	7,885.57	2,327.04	84,660.09	772.43
9,126.37	10,457.40	7,831.92	62,634.58	67,705.64	29,573.74	83,618.27	27,708.14
2,725.13	5,125.97	2,518.45	7,619.91	15,686.01	5,535.26	45,641.89	36,498.71
				1,471.57	1,668.04	2,816.45	900.00
11,851.50	15,583.37	10,350.37	70,254.49	84,863.22	36,777.04	132,076.61	65,106.85
1,991.81	10,523.87	6,328.21	13,708.65	25,473.40	8,748.04	49,400.94	22,295.22
3,010.20	19,915.49	7,618.06	66,552.44	42,463.16	12,183.69	37,404.30	51,642.04
5,002.01	30,439.36	13,946.27	80,261.09	67,936.56	20,931.73	86,805.24	73,937.26
19,613.70	47,959.62	31,415.54	171,588.26	160,685.35	60,035.81	303,541.94	139,816.54
26.3	5.2	30.2	19.3	8.5	7.6	38.5	0.7

## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Moorefield	Mount	Newbury	New	New
Population.....	P.V.	Brydges	256	Hamburg	Toronto
		P.V.		1,457	7,484
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				2,513.19	43,745.98
Substation equipment.....				1,167.55	
Distribution system—overhead.....	2,980.96	6,409.60	6,422.17	23,725.89	79,577.21
Distribution system—underground.....					8,605.69
Line transformers.....	1,012.17	1,967.97	1,797.86	6,512.94	30,786.47
Meters.....	1,221.66	2,269.66	1,193.74	8,982.53	29,514.45
Street light equipment, regular.....	295.88	689.49	817.42	2,095.68	10,217.86
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	348.35	296.84	486.13	958.73	7,432.07
Steam or hydraulic plant.....					
Old plant.....			348.22	5,242.56	
Total plant.....	5,859.02	11,633.56	11,065.54	51,199.07	209,879.73
Bank and cash balance.....	2,127.18	2,445.27	1,042.53	2,276.68	2,733.18
Securities and investments.....		3,000.00			
Accounts receivable.....	58.63	797.17	880.62	1,132.22	20,203.92
Inventories.....				804.63	
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	3,931.96	4,460.85	2,767.14	31,661.77	259,357.33
Other assets.....		86.94			1,371.22
Total assets.....	11,976.79	22,423.79	15,755.83	87,074.37	493,545.38
Deficit.....					
Total.....	11,976.79	22,423.79	15,755.83	87,074.37	493,545.38
LIABILITIES					
Debenture balance.....	1,032.37	2,188.65	3,900.00	5,943.32	3,699.00
Accounts payable.....		79.72	30.00		9,240.40
Bank overdraft.....					
Other liabilities.....		84.90	25.00	173.50	5,371.22
Total liabilities.....	1,032.37	2,353.27	3,955.00	6,116.82	18,310.62
RESERVES					
For equity in H-E.P.C. systems....	3,931.96	4,460.85	2,767.14	31,661.77	259,357.33
For depreciation.....	2,228.76	2,422.30	2,575.68	11,347.65	45,170.34
Other reserves.....				101.29	3,076.57
Total reserves.....	6,160.72	6,883.15	5,342.82	43,110.71	307,604.24
SURPLUS					
Debentures paid.....	3,467.63	2,031.35	5,854.39	11,785.76	4,301.00
Local sinking fund.....					
Operating surplus.....	1,316.07	11,156.02	603.62	26,061.08	163,329.52
Total surplus.....	4,783.70	13,187.37	6,458.01	37,846.84	167,630.52
Total liabilities, reserves and surplus.....	11,976.79	22,423.79	15,755.83	87,074.37	493,545.38
Percentage of net debt to total assets.....	12.8	13.1	30.4	11.0	7.8

## “A”—Continued

## Hydro Municipalities as at December 31, 1934

Niagara Falls 18,060	Niagara-on-the-Lake 1,614	North York Twp.	Norwich 1,196	Oil Springs 462	Otterville P.V.	Palmerston 1,600	Paris 4,297
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
132,324.59	2,307.35	28,248.83	4,638.76	1,453.46			8,426.83
229,660.23	16,048.36					691.88	27,720.70
190,698.67	28,272.74	335,164.78	11,113.94	12,973.70	7,121.72	26,503.72	52,092.83
160,604.56	7,666.78	82,776.87	6,180.85	5,670.91	3,943.30	9,841.85	19,712.59
107,152.32	8,030.45	42,796.46	6,799.26	3,424.65	2,410.45	7,327.72	19,393.87
118,104.12	1,230.44	156.00	4,685.64	308.24	1,408.96	2,429.36	14,026.52
		13,491.21					
11,598.32	2,064.87	19,357.44	1,522.77	2,417.13	142.00	778.43	810.78
20,742.69			3,509.82			4,018.71	
970,885.50	65,620.99	521,991.59	38,451.04	26,248.09	15,026.43	51,591.67	142,184.12
28,546.60	490.18	4,593.50	1,771.58	4,390.15	2,830.14	1,532.88	3,329.23
			3,500.00	2,242.89			28,500.00
11,652.93	3,749.97	7,050.14	2,062.86	407.43	882.61	1,278.85	758.37
11,423.83	1,762.60	64.48	1,482.62	73.69		346.12	
356,603.43	18,308.81	60,834.26	23,485.72	16,048.30	5,127.05	26,653.44	71,286.89
26,733.01	73.37	5,806.19	165.40		15.00		
1,405,845.30	90,005.92	600,340.16	70,919.22	49,410.55	23,881.23	81,402.46	246,058.61
1,405,845.30	90,005.92	600,340.16	70,919.22	49,410.55	23,881.23	81,402.46	246,058.61
325,605.23	20,356.68	355,032.55	5,431.38	3,749.41	370.18	3,462.22	8,726.32
45,205.72	909.35	9,956.03	370.00	1,499.25	210.35		575.05
16,111.31	70.00	19,297.40	165.40		15.00	262.50	
386,922.26	21,336.03	384,285.98	5,966.78	5,248.66	595.53	3,724.72	9,301.37
356,603.43	18,308.81	60,834.26	23,485.72	16,048.30	5,127.05	26,653.44	71,286.89
152,165.71	9,934.64	63,328.89	5,326.49	6,822.57	4,394.57	6,799.54	63,647.08
8,784.94	363.00		993.87			471.11	175.00
517,554.08	28,606.45	124,163.15	29,806.08	22,870.87	9,521.62	33,924.09	135,108.97
364,637.77	16,144.74	87,989.32	8,324.62	12,971.90	4,129.82	23,537.78	83,273.68
136,731.19	23,918.70	3,901.71	26,821.74	8,319.12	9,634.26	20,215.87	18,374.59
501,368.96	40,063.44	91,891.03	35,146.36	21,291.02	13,764.08	43,753.65	101,648.27
1,405,845.30	90,005.92	600,340.16	70,919.22	49,410.55	23,881.23	81,402.46	246,058.61
37.0	30.0	70.5	12.3	15.7	3.1	6.8	5.3



## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Parkhill	Petrolia	Plattsville	Point Edward	Port Colborne
Population.....	1,021	2,715	P.V.	1,336	5,417
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....		900.00			22,561.01
Substation equipment.....		2,403.55			
Distribution system—overhead.....	16,039.71	43,548.17	4,116.10	21,284.62	89,678.99
Distribution system—underground					
Line transformers.....	4,239.63	26,243.59	1,890.66	7,017.98	24,486.11
Meters.....	4,284.93	14,903.26	1,921.31	5,162.40	22,209.98
Street light equipment, regular.....	898.23	4,849.35	147.15	3,091.41	4,549.26
Street light equipment, ornamental					16,611.59
Miscellaneous construction expense	1,347.67	5,476.92	535.92	503.14	7,054.38
Steam or hydraulic plant.....					
Old plant.....		3,389.94			9,929.60
Total plant.....	26,810.17	101,714.78	8,611.14	37,059.55	197,080.92
Bank and cash balance.....	1,133.62	5,781.95	1,291.75	1,442.15	15.00
Securities and investments.....		8,400.00		13,000.00	1,500.00
Accounts receivable.....	319.34	5,805.16	78.88	4,054.58	14,233.95
Inventories.....		951.58			4,003.93
Sinking fund on local debentures					
Equity in H-E.P.C. systems.....	11,259.93	63,863.94	5,589.37	29,386.60	55,085.73
Other assets.....		692.50		164.00	
Total assets.....	39,523.06	187,209.91	15,571.14	85,106.88	271,919.53
Deficit.....					
Total.....	39,523.06	187,209.91	15,571.14	85,106.88	271,919.53
<b>LIABILITIES</b>					
Debenture balance.....	5,013.74	21,885.89	2,630.78	6,992.78	86,319.90
Accounts payable.....	245.01			2,818.24	3,869.62
Bank overdraft.....					946.96
Other liabilities.....	70.00	692.50		164.00	20,310.30
Total liabilities.....	5,328.75	22,578.39	2,630.78	9,975.02	111,446.78
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	11,259.93	63,863.94	5,589.37	29,386.60	55,085.73
For depreciation.....	5,772.97	29,452.51	3,079.33	9,683.57	34,996.83
Other reserves.....		310.61		264.98	1,630.70
Total reserves.....	17,032.90	93,627.06	8,668.70	39,335.15	91,713.26
<b>SURPLUS</b>					
Debentures paid.....	9,616.28	28,114.11	2,606.22	10,007.22	59,680.10
Local sinking fund.....					
Operating surplus.....	7,545.13	42,890.35	1,665.44	25,789.49	9,079.39
Total surplus.....	17,161.41	71,004.46	4,271.66	35,796.71	68,759.49
Total liabilities, reserves and surplus	39,523.06	187,209.91	51,571.14	85,106.88	271,919.53
Percentage of net debt to total assets	18.9	18.3	26.4	17.9	47.3

## “A”—Continued

## Hydro Municipalities as at December 31, 1934

Port Credit 1,650	Port Dalhousie 1,495	Port Dover 1,692	Port Rowan 692	Port Stanley 742	Preston 6,189	Princeton P.V.	Queenston P.V.
\$ c. 675.00	\$ c.	\$ c. 248.75	\$ c.	\$ c. 1,570.80	\$ c.	\$ c.	\$ c.
24,758.35	18,600.65	29,956.67	9,220.72	21,491.82	50,727.43 90,842.70	4,233.15	7,898.91
9,881.98	9,861.19	10,257.03	1,435.32	12,086.52	47,728.03	2,473.48	2,219.20
9,266.13	9,385.06	7,313.74	1,815.68	9,580.83	38,634.89	1,223.65	1,568.03
4,922.71	1,041.19	2,673.13	863.49	1,686.62	5,442.53	185.35	422.43
864.49	2,179.34	2,477.44	699.53	6,272.72	8,002.06	64.35	2,081.11
	6,018.38			577.51	32,126.75		
50,368.66	47,085.81	52,926.76	14,034.74	53,266.82	273,504.39	8,179.98	14,189.68
3,179.83	1,108.30	5,637.98		4,504.92	22,116.29	3,372.43	53.27
	3,000.00			3,000.00	6,000.00		
2,581.99	2,514.20	2,863.30	377.83	1,539.97	15,694.50	730.90	256.85
			49.19		287.56		
22,366.52	3,075.30 19,140.76	14,397.07 20.00	3,876.69	24,446.66 15.01	168,456.92 363.50	5,171.78	4,112.51
78,497.00	76,314.58	75,845.11	18,338.45 4,986.36	86,773.38	486,423.16	17,455.09	18,612.31
78,497.00	76,314.58	75,845.11	23,324.81	86,773.38	486,423.16	17,455.09	18,612.31
7,588.22	8,662.28	9,285.10	8,490.00	6,543.70	46,181.10	1,783.26	5,142.72
1,803.98		2,080.87	6,257.60		8,465.97	100.37	3.69
			220.61				
485.00	83.00	680.85		15.01	363.50		
9,877.20	8,745.28	12,046.82	14,968.21	6,558.71	55,010.57	1,883.63	5,146.41
22,366.52	19,140.76	14,397.07	3,876.69	24,446.66	168,456.92	5,171.78	4,112.51
14,433.13	5,228.86	8,310.62	1,969.91	10,657.07	101,457.88	2,541.98	2,878.45
198.71	926.31				412.46		
36,998.36	25,295.93	22,707.69	5,846.60	35,103.73	270,327.26	7,713.76	6,990.96
6,911.78	13,837.72	19,714.90	2,510.00	12,406.30	106,618.90	1,766.74	4,357.28
	3,075.30						
24,709.66	25,360.35	21,375.70		32,704.64	54,466.43	6,090.96	2,117.66
31,621.44	42,273.37	41,090.60	2,510.00	45,110.94	161,085.33	7,857.70	6,474.94
78,497.00	76,314.58	75,845.11	23,324.81	86,773.38	486,423.16	17,455.09	18,612.31
17.6	10.5	19.6	103.5	10.5	17.3	15.3	37.6

## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Richmond Hill	Ridgetown	Riverside	Rockwood	Rodney
Population.....	1,299	1,914	4,975	P.V.	748
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			2,379.31	79.00	
Substation equipment.....	600.00	1,024.24			
Distribution system—overhead.....	10,573.07	21,466.69	91,478.45	7,565.39	10,876.25
Distribution system—underground					
Line transformers.....	8,549.95	9,768.42	32,326.02	2,481.27	2,890.98
Meters.....	4,889.98	9,458.46	22,599.21	2,832.57	3,448.34
Street light equipment, regular.....	1,334.77	3,549.96		679.03	631.29
Street light equipment, ornamental		1,431.73	17,030.71		
Miscellaneous construction expense	42.00	2,086.95	4,805.07	450.52	774.44
Steam or hydraulic plant.....					
Old plant.....		5,088.46			700.00
Total plant.....	25,989.77	53,874.91	170,618.77	14,087.78	19,321.30
Bank and cash balance.....	5,667.87			44.91	2,880.57
Securities and investments.....		12,000.00			3,000.00
Accounts receivable.....	894.09	445.21	16,849.60	253.65	161.16
Inventories.....	135.46	777.47		130.09	
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	9,707.40	25,643.35	48,821.25	7,008.90	7,797.20
Other assets.....	206.18			79.47	
Total assets.....	42,600.77	92,740.94	236,289.62	21,604.80	33,160.23
Deficit.....					
Total.....	42,600.77	92,740.94	236,289.62	21,604.80	33,160.23
LIABILITIES					
Debenture balance.....	3,440.31	6,016.62	49,901.70	2,261.64	5,040.68
Accounts payable.....	450.27	456.36	10,210.65		557.73
Bank overdraft.....		506.51	5,477.79		
Other liabilities.....	206.18	1,816.73	17,030.71	76.00	130.00
Total liabilities.....	4,096.76	8,796.22	82,620.85	2,337.64	5,728.41
RESERVES					
For equity in H-E.P.C. systems....	9,707.40	25,643.35	48,821.25	7,008.90	7,797.20
For depreciation.....	1,627.98	12,240.16	29,857.77	4,480.31	1,805.72
Other reserves.....			68.27		
Total reserves.....	11,335.38	37,883.51	78,747.29	11,489.21	9,602.92
SURPLUS					
Debentures paid.....	8,759.69	13,439.37	32,598.30	2,238.36	3,459.32
Local sinking fund.....					
Operating surplus.....	18,408.94	32,621.84	42,323.18	5,539.59	14,369.58
Total surplus.....	27,168.63	46,061.21	74,921.48	7,777.95	17,828.90
Total liabilities, reserves and surplus	42,600.77	92,740.94	236,289.62	21,604.80	33,160.23
Percentage of net debt to total assets	12.5	11.2	38.4	16.0	22.6



## “A”—Continued

## Hydro Municipalities as at December 31, 1934

St. Catharines 26,161	St. Clair Beach 81	St. George P.V.	St. Jacobs P.V.	St. Marys 4,023	St. Thomas 16,072	Sandwich 10,559
\$ c. 50,305.64 109,157.83 209,618.58	\$ c. 7,918.75	\$ c. 5,949.09	\$ c. 6,501.68	\$ c. 3,000.00 26,975.49 56,558.66	\$ c. 73,228.59 110,146.39 112,524.31	\$ c. 541.70 4,097.56 107,934.80
141,218.65 89,822.50 18,577.59 29,486.71 27,654.83	2,726.36 1,414.13 149.27	2,729.42 2,890.56 286.41 374.18	2,539.38 2,692.61 390.26 460.55	18,978.89 21,969.91 5,203.64 3,533.19	36,690.67 54,085.43 70,516.88 21,259.32 3,693.04 8,181.86	47,310.59 49,923.85 11,665.76 51,239.13 7,502.73
17,807.89				20,696.85		4,148.96
693,650.22 6,537.67 36,893.34 443.37 73,048.00 325,288.97 160.03	12,208.51 1,635.73 3,989.36	12,229.66 557.32 8,522.48 107.50	12,584.48 328.92 3,000.00 80.66 8,820.18	156,916.63 1,385.42 3,634.25 2,818.61 1,488.42 84,613.22 63.37	490,326.49 8,644.19 43,206.81 15,376.64 8,005.38 293,235.39 9,070.58	284,365.08 18,163.71 21,659.37 8,040.54 334.27 140,799.88 250.00
1,136,021.60	17,833.60	21,416.96	24,814.24	250,919.92 447.58	867,865.48	473,612.85
1,136,021.60	17,833.60	21,416.96	24,814.24	251,367.50	867,865.48	473,612.85
198,949.97 25,568.44 29,792.71	3,306.64 138.33 884.28	3,116.13 316.53 107.50	1,354.13 178.13	38,624.69 1,573.19 147.50	1,762.44 2,230.82 12,763.62	91,031.68 927.83 62,121.27
254,311.12	4,329.25	3,540.16	1,532.26	40,345.38	16,756.88	154,080.78
325,288.97 138,303.28 8,017.10	3,989.36 2,630.68 12.67	8,522.48 2,191.74	8,820.18 3,110.05	84,613.22 48,638.10 660.05	293,235.39 110,708.87 494.51	140,799.88 42,541.44 450.74
471,609.35	6,632.71	10,714.22	11,930.23	133,911.37	404,438.77	183,792.06
103,072.94 73,048.00 233,980.19	3,034.81 3,836.83	2,883.87 4,278.71	4,645.87 6,705.88	75,622.33 1,488.42	137,181.63 309,488.20	54,541.35 81,198.66
410,101.13	6,871.64	7,162.58	11,351.75	77,110.75	446,669.83	135,740.01
1,136,021.60	17,833.60	21,416.96	24,814.24	251,367.50	867,865.48	473,612.85
21.4	31.2	27.5	9.6	23.6	2.9	36.5

## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Sarnia	Scarboro' Twp.	Seaforth	Simcoe	Spring- field 372
Population.....	17,620		1,697	5,174	
<b>ASSETS</b>	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	112,246.86	16,585.49	1,301.70	8,442.41	
Substation equipment.....	199,845.48	301.95	5,999.16	22,906.67	
Distribution system—overhead.....	216,977.95	272,919.53	28,114.36	49,452.44	7,996.00
Distribution system—underground.....				1,412.24	
Line transformers.....	87,297.27	60,697.75	10,345.10	24,655.44	2,374.19
Meters.....	72,313.60	64,532.49	9,197.25	24,558.46	2,017.85
Street light equipment, regular.....	25,311.08	19,810.03	1,414.55	5,600.67	558.91
Street light equipment, ornamental.....	7,482.11			3,500.00	
Miscellaneous construction expense.....	23,873.31	2,733.37	509.46	5,783.81	685.08
Steam or hydraulic plant.....					
Old plant.....	55,445.72			927.92	
Total plant.....	800,793.38	437,580.61	56,881.58	147,240.06	13,632.03
Bank and cash balance.....		56,195.90	3,148.46	19,594.87	370.44
Securities and investments.....		2,680.00	100.00		4,500.00
Accounts receivable.....	42,154.09	11,779.80	4,478.00	2,358.77	842.70
Inventories.....	18,830.31		1,901.60	2,485.68	
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	367,445.02	97,483.60	40,569.35	56,252.93	5,819.93
Other assets.....	3,925.50				52.00
Total assets.....	1,233,148.30	605,719.91	107,078.99	227,932.31	25,217.10
Deficit.....					
Total.....	1,233,148.30	605,719.91	107,078.99	227,932.31	25,217.10
<b>LIABILITIES</b>					
Debenture balance.....	107,841.95	179,243.58		51,834.15	3,432.99
Accounts payable.....	327.20	41,895.95	7.47	699.77	246.82
Bank overdraft.....	3,577.37				
Other liabilities.....	13,797.17	27,035.03	35.00	3,667.00	52.00
Total liabilities.....	125,543.69	248,174.56	42.47	56,200.92	3,731.81
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	367,445.02	97,483.60	40,569.35	56,252.93	5,819.93
For depreciation.....	131,633.77	70,994.94	19,447.13	19,715.60	2,680.06
Other reserves.....	1,151.71	630.00	1,106.96		
Total reserves.....	500,230.50	169,108.54	61,123.44	75,968.53	8,499.99
<b>SURPLUS</b>					
Debentures paid.....	230,158.05	111,324.70	25,000.00	23,600.75	6,067.01
Local sinking fund.....					
Operating surplus.....	377,216.06	77,112.11	20,913.08	72,162.11	6,918.29
Total surplus.....	607,374.11	188,436.81	45,913.08	95,762.86	12,985.30
Total liabilities, reserves and surplus.....	1,233,148.30	605,719.91	107,078.99	227,932.31	25,217.10
Percentage of net debt to total assets.....	13.8	48.8	0.0	31.3	19.0

## "A"—Continued

## Hydro Municipalities as at December 31, 1934

Stamford Twp.	Stouffville 1,174	Stratford 18,673	Strathroy 2,887	Sutton 806	Tavistock 1,050	Tecumseh 2,423	Thames- ford P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,196.71		138,790.05	8,741.01		234.02		
37,384.60		121,684.65	23,219.34				
126,377.62	12,679.06	153,642.29	47,875.29	20,019.67	13,273.34	34,797.28	7,701.83
43,741.71	4,160.67	94,013.60	19,925.16	7,097.85	6,251.28	10,462.61	2,625.63
31,021.39	4,284.51	82,120.82	14,619.35	5,633.71	4,786.61	10,393.16	2,582.79
9,303.43	1,604.52	21,892.10	5,814.75	1,712.28	997.66		290.65
						4,760.95	
9,578.53	472.46	18,012.56	2,158.52	1,600.13	573.65	1,299.03	330.89
13,743.66	3,866.37	31,520.00	12,343.15	675.00			
278,347.65	27,067.59	661,676.07	134,696.57	36,738.64	26,116.56	61,713.03	13,531.79
2,827.15	3,416.19	54,212.54	9,357.97	1,940.66	1,897.25		919.22
	5,000.00	21,900.00	5,000.00		3,596.30		7,500.00
15,339.81	148.82	18,237.31	2,908.93	1,301.92	1,438.68	5,721.36	468.92
7,625.43	30.94	9,404.33	2,404.92	44.20			
		226,182.93					
54,280.79	8,912.62	375,971.07	52,620.90	8,303.72	26,989.11	14,944.13	10,643.46
5,043.16		2,825.21	566.00	52.30		70.12	40.00
363,463.99	44,576.16	1,370,409.46	207,555.29	48,381.44	60,037.90	82,448.64	33,103.39
363,463.99	44,576.16	1,370,409.46	207,555.29	48,381.44	60,037.90	82,448.64	33,103.39
159,900.62	5,032.43	390,000.00	32,913.10	14,870.89	3,459.44	13,384.83	1,443.24
12,444.01	18.11	805.61		2,375.13	115.83	5,600.78	
						3,175.17	
4,131.95		2,825.21	566.00	52.30		4,760.95	40.00
176,476.58	5,050.54	393,630.82	33,479.10	17,298.32	3,575.27	26,921.73	1,483.24
54,280.79	8,912.62	375,971.07	52,620.90	8,303.72	26,989.11	14,944.13	10,643.46
27,890.67	2,576.34	228,063.91	24,146.62	5,539.72	8,226.86	11,433.86	4,930.18
2,544.77		2,948.88	347.43			136.50	
84,716.23	11,488.96	606,983.86	77,114.95	13,843.44	35,215.97	26,514.49	15,573.64
80,377.55	13,507.84	65,800.00	33,318.90	11,129.11	2,540.56	12,615.17	3,914.79
		226,182.93					
21,893.63	14,528.82	77,811.85	63,642.34	6,110.57	18,706.10	16,397.25	12,131.72
102,271.18	28,036.66	369,794.78	96,961.24	17,239.68	21,246.66	29,012.42	16,046.51
363,463.99	44,576.16	1,370,409.46	207,555.29	48,381.44	60,037.90	82,448.64	33,103.39
57.0	14.2	21.5	21.5	43.2	10.8	35.3	6.6



## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Thames- ville 763	Thedford 572	Thorndale P.V.	Thorold 4,945	Tilbury 1,897
Population.....					
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....	681.69			9,892.59	969.46
Substation equipment.....					
Distribution system—overhead.....	12,045.47	9,267.79	3,288.86	31,830.00	15,590.08
Distribution system—underground.....					
Line transformers.....	5,160.49	3,268.91	1,559.98	16,257.73	12,550.67
Meters.....	3,836.81	2,206.01	1,747.46	20,305.91	6,952.78
Street light equipment, regular.....	1,379.42	885.46	181.19	2,860.49	982.66
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	771.15	1,600.41	310.45	4,699.73	1,705.43
Steam or hydraulic plant.....				13,244.74	
Old plant.....	4,445.68	433.78			3,049.47
Total plant.....	28,320.71	17,662.36	7,087.94	99,091.19	41,800.55
Bank and cash balance.....	3,245.31	1,416.71	521.40	7,251.75	2,369.19
Securities and investments.....	6,000.00	1,000.00			10,000.00
Accounts receivable.....	1,231.90	241.24	525.48	7,575.43	349.69
Inventories.....				216.69	
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	10,545.78	5,462.05	5,593.83	52,920.28	27,410.33
Other assets.....			23.50		3.51
Total assets.....	49,343.70	25,782.36	13,752.15	167,055.34	81,933.27
Deficit.....					
Total.....	49,343.70	25,782.36	13,752.15	167,055.34	81,933.27
<b>LIABILITIES</b>					
Debenture balance.....	3,581.91	8,030.48	1,341.70		5,986.44
Accounts payable.....	25.24	61.82	79.70	1,048.48	51.00
Bank overdraft.....					
Other liabilities.....	155.00	23.00	23.50	1,627.50	
Total liabilities.....	3,762.15	8,115.30	1,444.90	2,675.98	6,037.44
<b>RESERVES</b>					
For equity in H-E.P.C. systems....	10,545.78	5,462.05	5,593.83	52,920.28	27,410.33
For depreciation.....	6,648.61	2,466.53	2,876.99	24,977.01	9,858.90
Other reserves.....			100.00		
Total reserves.....	17,194.39	7,928.58	8,570.82	77,897.29	37,269.23
<b>SURPLUS</b>					
Debentures paid.....	7,605.89	8,469.52	1,744.78	5,000.00	8,013.56
Local sinking fund.....					
Operating surplus.....	20,781.27	1,268.96	1,991.65	81,482.07	30,613.04
Total surplus.....	28,387.16	9,738.48	3,736.43	86,482.07	38,626.60
Total liabilities, reserves and surplus.....	49,343.70	25,782.36	13,752.15	167,055.34	81,933.27
Percentage of net debt to total assets.....	9.7	39.9	17.7	2.3	11.1

## “A”—Continued

## Hydro Municipalities as at December 31, 1934

Tillson- burg 3,380	Toronto 626,674	Toronto Twp.	Trafalgar Twp. Area No. 1	Trafalgar Twp. Area No. 2	Walkerville 10,458	Wallaceburg 4,457
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,824.27	5,413,450.99	6,366.13			147,518.53	37,746.29
13,937.52	14,984,220.87				155,069.52	9,651.80
41,227.34	6,274,444.24	180,594.29	20,845.11	10,381.31	154,310.65	57,608.88
	4,151,341.95					
16,669.00	3,649,083.30	52,953.15	9,595.46	2,112.55	90,628.67	35,173.82
16,088.04	3,024,093.97	33,017.12	4,741.17	1,331.65	70,877.92	19,832.16
11,522.52	483,901.89	3,717.44				10,224.10
					187,172.22	
4,184.79	2,509,344.39	2,543.09	2,188.06	309.66	37,842.69	4,763.50
	3,570,474.01	619.65				
					18,335.05	20,941.07
108,453.48	44,060,355.61	279,810.87	37,369.80	14,135.17	861,755.25	195,941.62
3,125.43	437,174.18	11,713.04	2,620.82	1,355.81		10,180.68
9,000.00		10,000.00	4,000.00	2,000.00	31,981.30	
3,404.15	1,695,834.51	2,293.24	305.75	360.28	100,223.54	5,637.69
2,050.35	445,118.82				25,053.24	5,445.23
	6,406,157.81					
52,836.54	11,464,279.18	56,414.19			395,616.59	113,492.49
2,641.47	91,578.48				1,638.46	1,846.57
181,511.42	64,600,498.59	360,231.34	44,296.37	17,851.26	1,416,268.38	332,544.28
181,511.42	64,600,498.59	360,231.34	44,296.37	17,851.26	1,416,268.38	332,544.28
9,059.10	25,130,566.68	55,482.25	11,635.05	9,461.15	121,667.00	41,640.23
1,559.38	1,635,421.42	1,135.51			29,141.33	
					18,650.46	
2,641.47		2,313.46			205,634.72	1,788.07
13,259.95	26,765,988.10	58,931.22	11,635.05	9,461.15	375,093.51	43,428.30
52,836.54	11,464,279.18	56,414.19			395,616.59	113,492.49
31,607.71	7,624,079.06	92,928.91	12,990.26	1,518.00	137,049.32	40,563.12
500.00	868,207.45	862.42			8,945.88	461.60
84,944.25	19,956,565.69	150,205.52	12,990.26	1,518.00	541,611.79	154,517.21
26,940.90	9,452,433.32	48,517.75	7,791.36		177,592.00	29,896.35
	6,406,157.81					
56,366.32	2,019,353.67	102,576.85	11,879.70	6,872.11	321,971.08	104,702.42
83,307.22	17,877,944.80	151,094.60	19,671.06	6,872.11	499,563.08	134,598.77
181,511.42	64,600,498.59	360,231.34	44,296.37	17,851.26	1,416,268.38	332,544.28
8.4	43.6	19.4	26.3	53.0	22.5	19.8

## STATEMENT

## Balance Sheets of Electrical Departments of

**NIAGARA  
SYSTEM—Continued**

Municipality.....	Wardsville	Water- down	Waterford	Waterloo	Watford
Population.....	240	919	1,213	8,714	941
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....		200.00		14,454.37	
Substation equipment.....				63,643.83	
Distribution system—overhead.....	5,040.50	16,146.32	15,772.78	90,844.94	16,539.14
Distribution system—underground					
Line transformers.....	1,665.49	5,825.50	7,201.37	39,939.41	5,411.56
Meters.....	1,253.12	5,718.80	5,939.66	35,158.32	5,269.77
Street light equipment, regular.....	519.36	583.81	3,231.62	14,105.43	807.31
Street light equipment, ornamental				3,106.80	
Miscellaneous construction expense	518.73	358.48	504.26	6,381.34	2,176.34
Steam or hydraulic plant.....					
Old plant.....	193.94			24,160.67	657.44
Total plant.....	9,191.14	28,832.91	32,649.69	291,795.11	30,861.56
Bank and cash balance.....	107.21	3,444.26	689.74	19,414.36	1,080.09
Securities and investments.....			5,300.00		5,500.00
Accounts receivable.....	934.76	1,430.04	577.11	2,356.02	1,936.70
Inventories.....				204.99	72.67
Sinking fund on local debentures.....				11,994.01	
Equity in H-E.P.C. systems.....	2,124.80	14,627.98	19,469.40	158,041.94	13,162.12
Other assets.....	154.48				
Total assets.....	12,512.39	48,335.19	58,685.94	483,806.43	52,613.14
Deficit.....					
Total.....	12,512.39	48,335.19	58,685.94	483,806.43	52,613.14
<b>LIABILITIES</b>					
Debenture balance.....	3,893.41			47,618.84	793.17
Accounts payable.....				3,352.68	836.79
Bank overdraft.....					
Other liabilities.....		80.00	42.00	3,106.80	
Total liabilities.....	3,893.41	80.00	42.00	54,078.32	1,629.96
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	2,124.80	14,627.98	19,469.40	158,041.94	13,162.12
For depreciation.....	2,158.84	7,383.58	9,842.00	99,351.25	6,359.99
Other reserves.....				328.00	23.00
Total reserves.....	4,283.64	22,011.56	29,311.40	257,721.19	19,545.11
<b>SURPLUS</b>					
Debentures paid.....	3,668.99	8,000.00	7,745.53	58,381.16	8,920.04
Local sinking fund.....				11,994.01	
Operating surplus.....	666.35	18,243.63	21,587.01	101,631.75	22,518.03
Total surplus.....	4,335.34	26,243.63	29,332.54	172,006.92	31,438.07
Total liabilities, reserves and surplus	12,512.39	48,335.19	58,685.94	483,806.43	52,613.14
Percentage of net debt to total assets	37.5	0.3	0.1	12.5	4.1



## "A"—Continued

## Hydro Municipalities as at December 31, 1934

Welland 10,655	Wellesley P.V.	West Lorne 776	Weston 4,828	Wheatley 754	Windsor 61,173	Wood- bridge 740	Wood- stock 11,007
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
73,269.45			11,903.31		312,503.82		35,489.71
57,402.56			32,737.85		678,250.86		94,693.30
133,400.14	6,691.79	11,330.46	60,344.01	15,009.43	756,330.41	16,771.25	102,782.69
7,475.04					141,997.19		
57,361.63	2,153.50	4,274.36	35,520.70	4,242.44	343,920.00	5,964.78	55,768.46
56,929.09	2,464.94	3,106.75	22,634.69	3,806.61	327,189.69	4,348.12	54,689.11
4,246.63	545.11	643.57	29,975.76	1,659.26	37,338.37	423.26	15,068.12
36,513.75					693,788.56		
12,359.55	138.13	347.14	5,996.08	1,114.65	126,729.03	798.20	3,045.33
49,989.65		1,250.00		2,569.50	140,902.11		
488,947.49	11,993.47	20,952.28	199,112.40	28,401.89	3,558,950.04	28,305.61	361,536.72
6,625.72	595.70	2,000.15	9,007.15	2,636.50	35,660.41	71.46	34,119.46
7,256.07		3,000.00		1,500.00	189,413.80		86,000.00
24,481.85	33.97	404.73	6,006.70	822.59	104,154.19	628.01	2,366.47
19,691.36			215.01		87,102.10		581.82
118,443.02					53,577.18		54,175.78
177,293.67	10,780.94	17,748.82	139,319.79	7,289.53	1,166,493.19	17,807.19	233,803.35
21,711.85			5,607.24	40.00	1,610.22	247.43	5,914.92
864,451.03	23,404.08	44,105.98	359,268.29	40,690.51	5,196,961.13	47,059.70	778,498.52
864,451.03	23,404.08	44,105.98	359,268.29	40,690.51	5,196,961.13	47,059.70	778,498.52
251,052.05	1,198.82	4,872.78	35,231.22	7,562.81	1,175,184.11	4,732.82	74,369.66
52,398.02		946.39	16.57	112.87	76,869.45	1,482.46	2,968.75
43,828.20		15.00	5,607.24	30.00	754,203.83	247.43	5,914.92
347,278.27	1,198.82	5,834.17	40,855.03	7,705.68	2,006,257.39	6,462.71	83,253.33
177,293.67	10,780.94	17,748.82	139,319.79	7,289.53	1,166,493.19	17,807.19	233,803.35
114,273.60	2,486.84	6,401.14	34,003.37	3,320.36	453,594.97	7,440.66	137,444.37
3,200.07					149,925.97		13,310.74
294,767.34	13,267.78	24,149.96	173,323.16	10,609.89	1,770,014.13	25,247.85	384,558.46
47,947.95	6,301.18	3,127.22	34,801.22	5,437.19	814,815.92	3,767.15	53,015.97
118,443.02					53,577.18		54,175.78
56,014.45	2,636.30	10,994.63	110,288.88	16,937.75	552,296.51	11,581.99	203,494.98
222,405.42	8,937.48	14,121.85	145,090.10	22,374.94	1,420,689.61	15,349.14	310,686.73
864,451.03	23,404.08	44,105.98	359,268.29	40,690.51	5,196,961.13	47,059.70	778,498.52
86.1	9.5	22.1	18.6	23.1	38.3	22.1	5.9

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Concluded

Municipality.....	Wyoming	York Twp.	Zurich	NIAGARA SYSTEM SUMMARY
Population.....	505		P.V.	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				8,852,717.35
Substation equipment.....				20,847,086.56
Distribution system—overhead.....	7,368.71	778,651.24	6,932.37	17,090,972.20
Distribution system—underground.....				5,621,403.79
Line transformers.....	1,383.85		1,643.52	8,286,724.95
Meters.....	2,348.24		2,316.77	7,029,718.93
Street light equipment, regular.....	289.62	49,545.94	471.82	1,750,469.86
Street light equipment, ornamental.....				1,464,306.73
Miscellaneous construction expense.....	805.20	19,070.96	269.97	3,522,907.29
Steam or hydraulic plant.....				14,744.74
Old plant.....			150.00	4,378,768.15
Plant not distributed.....				200,000.00
Total plant.....	12,195.62	847,268.14	11,784.45	79,059,820.55
Bank and cash balance.....	176.17	76,132.01	1,173.93	1,682,906.63
Securities and investments.....			2,000.00	812,616.45
Accounts receivable.....	143.04	14,260.21	28.25	3,335,965.59
Inventories.....				979,113.97
Sinking fund on local debentures.....				7,949,800.32
Equity in H-E.P.C. systems.....	4,964.31		8,299.79	25,955,262.41
Other assets.....	35.00	20,186.71		279,437.27
Total assets.....	17,514.14	957,847.07	23,286.42	120,054,923.19
Deficit.....	2,126.42			15,663.83
Total.....	19,640.56	957,847.07	23,286.42	120,070,587.02
LIABILITIES				
Debenture balance.....	843.94	385,098.50	3,558.52	35,699,558.87
Accounts payable.....	84.61	60,968.81	69.87	2,798,729.54
Bank overdraft.....				63,308.13
Other liabilities.....	35.00		20.00	3,597,108.21
Total liabilities.....	963.55	446,067.31	3,648.39	42,158,704.75
RESERVES				
For equity in H-E.P.C. systems.....	4,964.31		8,299.79	25,955,262.41
For depreciation.....	4,856.64	169,047.76	4,409.70	14,444,891.96
Other reserves.....				1,554,057.00
Total reserves.....	9,820.95	169,047.76	12,709.49	41,954,211.37
SURPLUS				
Debentures paid.....	8,856.06	214,901.50	2,033.09	17,487,842.97
Local sinking fund.....				7,949,800.32
Operating surplus.....		127,830.50	4,895.45	10,520,027.61
Total surplus.....	8,856.06	342,732.00	6,928.54	35,957,670.90
Total liabilities, reserves and surplus.....	19,640.56	957,847.07	23,286.42	120,070,587.02
Percentage of net debt to total assets.....	7.7	46.6	24.3	38.7

## "A"—Continued

## Hydro Municipalities as at December 31, 1934

GEORGIAN BAY  
SYSTEM

Alliston 1,379	Arthur 1,036	Barrie 7,686	Beaverton 989	Beeton 601	Bradford 1,060	Brechin P.V.	Canning- ton 864
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
675.73		14,199.11	299.50				
26,672.86	17,202.27	15,285.02		428.50	388.50		
		57,199.97	21,237.62	11,733.25	19,385.72	1,789.59	10,105.77
		66,437.67					
7,039.73	3,980.80	43,667.83	7,112.69	2,188.63	4,072.65	1,126.71	4,228.88
7,247.34	3,427.20	41,749.91	6,013.08	2,042.19	3,974.55	726.95	4,277.82
1,522.69	767.21	12,063.80	1,173.58	1,169.54	544.95	212.44	924.69
2,691.02	381.92	7,293.81	2,548.51	1,433.38	1,828.94	553.28	750.66
7,846.49	1,086.62	42,634.32	3,772.42				3,609.37
53,695.86	26,846.02	300,531.44	42,157.40	18,995.49	30,195.31	4,408.97	23,897.19
1,815.79	376.97	2,195.12	1,378.72	1,562.37	1,921.09	803.82	730.26
			9,000.00		1,000.00		1,326.62
1,775.93	170.30	12,539.09	1,407.27	623.71	3,199.33	798.41	1,034.44
	48.96	142.98	22.44	14.96	7.19	16.32	140.83
12,801.88	11,941.01	82,793.94	13,313.97	9,678.86	10,737.95	5,143.14	10,006.32
			378.20		199.73	21.85	5.00
70,089.46	39,383.26	398,202.57	67,658.00	30,875.39	47,260.60	11,192.51	37,140.66
	12,190.43			1,275.88			
70,089.46	51,573.69	398,202.57	67,658.00	32,151.27	47,260.60	11,192.51	37,140.66
24,503.15	16,879.50	23,979.17	6,023.76	9,658.81	17,294.52	2,049.07	7,325.30
	3,031.34	7,310.68	27.70	657.54	621.66	278.46	142.10
		11,500.00					
		3.00	378.20		199.73	21.85	5.00
24,503.15	19,910.84	42,792.85	6,429.66	10,316.35	18,115.91	2,349.38	7,472.40
12,801.88	11,941.01	82,793.94	13,313.97	9,678.86	10,737.95	5,143.14	10,006.32
14,581.34	11,601.34	66,202.51	12,265.92	6,814.87	8,294.44	1,795.24	8,040.25
		600.00					
27,383.22	23,542.35	149,596.45	25,579.89	16,493.73	19,032.39	6,938.38	18,046.57
15,496.85	8,120.50	84,020.83	8,976.24	5,341.19	7,905.48	1,161.85	7,674.70
2,706.24		121,792.44	26,672.21		2,206.82	742.90	3,946.99
18,203.09	8,120.50	205,813.27	35,648.45	5,341.19	10,112.30	1,904.75	11,621.69
70,089.46	51,573.69	398,202.57	67,658.00	32,151.27	47,260.60	11,192.51	37,140.66
42.8	72.6	13.6	11.8	48.7	49.6	38.8	27.5



## STATEMENT

## Balance Sheets of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	Chatsworth	Chesley	Coldwater	Collingwood	Cookstown
Population.....	308	1,762	632	5,536	P.V.
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....	229.00		275.00	15,950.08	60.00
Substation equipment.....		595.98		11,203.24	392.95
Distribution system—overhead.....	4,907.52	19,951.45	7,719.76	48,140.54	9,136.76
Distribution system—underground					
Line transformers.....	1,618.38	6,809.24	2,779.67	17,032.06	2,232.60
Meters.....	1,493.72	6,798.83	2,932.65	22,218.00	2,181.33
Street light equipment, regular.....	529.17	1,201.48	440.68	2,876.90	701.86
Street light equipment, ornamental					
Miscellaneous construction expense	400.80	3,359.32	196.92	1,629.00	1,520.03
Steam or hydraulic plant.....					
Old plant.....		5,503.60			
Total plant.....	9,178.59	44,219.90	14,344.68	119,049.82	16,225.53
Bank and cash balance.....	761.43	233.84	2,266.99	2,169.94	4,227.42
Securities and investments.....		10,000.00	4,000.00	17,000.00	
Accounts receivable.....	1,005.42	3,559.63	1,567.62	2,205.56	658.19
Inventories.....	16.73	202.47		499.51	
Sinking fund on local debentures.....	3,415.04				
Equity in H-E.P.C. systems.....	2,539.52	21,170.73	8,211.40	88,206.95	3,019.34
Other assets.....			56.00	1,850.86	5.00
Total assets.....	16,916.73	79,386.57	30,446.69	230,982.64	24,135.48
Deficit.....					
Total.....	16,916.73	79,386.57	30,446.69	230,982.64	24,135.48
<b>LIABILITIES</b>					
Debenture balance.....	4,514.03	2,986.21	3,348.33		6,255.13
Accounts payable.....	28.95	1,665.71	86.69	21.14	
Bank overdraft.....					
Other liabilities.....			56.00	1,850.86	5.00
Total liabilities.....	4,542.98	4,651.92	3,491.02	1,872.00	6,260.13
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	2,539.52	21,170.73	8,211.40	88,206.95	3,019.34
For depreciation.....	2,250.06	15,066.48	7,468.44	44,706.19	6,191.61
Other reserves.....					
Total reserves.....	4,789.58	36,237.21	15,679.84	132,913.14	9,210.95
<b>SURPLUS</b>					
Debentures paid.....	885.97	24,513.79	3,651.67	38,183.42	7,244.87
Local sinking fund.....	3,415.04				
Operating surplus.....	3,283.16	13,983.65	7,624.16	58,014.08	1,419.53
Total surplus.....	7,584.17	38,497.44	11,275.83	96,197.50	8,664.40
Total liabilities, reserves and surplus	16,916.73	79,386.57	30,446.69	230,982.64	24,135.48
Percentage of net debt to total assets	10.3	8.0	15.7	1.2	29.6

## "A"—Continued

## Hydro Municipalities as at December 31, 1934

Creemore 620	Dundalk 650	Durham 1,776	Elmvale P.V.	Elmwood P.V.	Flesherton 488	Grand Valley 589	Graven- hurst 1,956
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
		56.59	106.25			36.50	3,526.17
		546.02					5,318.56
7,291.01	7,729.67	21,837.80	8,318.74	4,812.76	5,446.88	11,341.14	26,032.08
3,171.36	3,351.56	7,073.30	3,959.64	803.88	1,692.52	2,179.63	8,257.65
3,021.57	2,489.42	7,003.17	3,354.17	1,014.08	2,214.59	2,778.98	9,682.02
295.27	1,082.10	1,408.66	447.17	302.28	720.51	503.83	4,102.71
279.27	393.38	1,483.58	578.53	1,093.62	928.25	205.70	2,135.75
3,433.74	380.94	2,091.39	2,273.07			919.85	28,055.29
17,492.22	15,427.07	41,500.51	19,037.57	8,026.62	11,002.75	17,965.63	87,110.23
468.02	944.12		3,751.47	718.55	3,402.02	2,831.96	2,123.79
	3,000.00	7,000.00		1,500.00		2,128.60	
898.24	257.17	3,001.57	857.40	321.39	284.95	270.65	8,145.13
4.89	21.80	38.94	30.60		39.16	43.66	909.23
				409.92			8,449.46
7,381.27	7,148.60	19,769.43	9,812.03	2,324.56	4,056.95	7,271.13	13,959.51
26,244.64	26,798.76	71,310.45	33,489.07	13,301.04	18,785.83	30,511.63	120,697.35
26,244.64	26,798.76	71,310.45	33,489.07	13,301.04	18,785.83	30,511.63	120,697.35
995.94	398.16	1,868.46	2,943.07	2,165.82	3,483.41	1,758.27	10,559.46
	5.64	21.79	512.85		84.65	93.37	864.38
		389.81					
995.94	403.80	2,280.06	3,455.92	2,165.82	3,568.06	1,851.64	11,423.84
7,381.27	7,148.60	19,769.43	9,812.03	2,324.56	4,056.95	7,271.13	13,959.51
3,558.29	4,149.19	11,342.40	7,202.24	2,983.86	3,790.27	5,693.44	17,571.99
							1,500.00
10,939.56	11,297.79	31,111.83	17,014.27	5,308.42	7,847.22	12,964.57	33,031.50
6,500.00	5,938.74	23,931.54	4,056.93	5,034.18	3,216.59	9,241.73	53,408.95
				409.92			8,449.46
7,809.14	9,158.43	13,987.02	8,961.95	382.70	4,153.96	6,453.69	14,383.60
14,309.14	15,097.17	37,918.56	13,018.88	5,826.80	7,370.55	15,695.42	76,242.01
26,244.64	26,798.76	71,310.45	33,489.07	13,301.04	18,785.83	30,511.63	120,697.35
5.3	2.1	4.4	14.6	16.6	24.2	8.0	3.0

## STATEMENT

## Balance Sheets of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	Hanover	Holstein	Huntsville	Kincardine	Kirkfield
Population.....	3,039	P.V.	2,563	2,511	P.V.
<b>ASSETS</b>					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	3,001.82		353.52	6,389.46	
Substation equipment.....	9,271.19		647.30	2,794.20	
Distribution system—overhead.....	49,001.03	2,102.68	13,384.06	42,627.03	5,130.67
Distribution system—underground					
Line transformers.....	16,825.46	571.82	6,875.72	10,962.45	557.90
Meters.....	15,493.16	544.92	8,748.51	10,780.58	722.75
Street light equipment, regular.....	2,326.30	168.69	2,262.52	5,318.52	379.00
Street light equipment, ornamental					
Miscellaneous construction expense	5,252.75	205.93	522.60	5,361.61	301.53
Steam or hydraulic plant.....					
Old plant.....	2,370.91		5,436.20		
Total plant.....	103,542.12	3,594.04	38,230.43	84,233.85	7,091.85
Bank and cash balance.....	4,598.71	74.39	6,346.80	50.00	546.92
Securities and investments.....	26,404.72		12,570.79		
Accounts receivable.....	4,501.00	85.92	1,258.29	642.62	634.71
Inventories.....	180.15	62.15	2,014.47	888.20	
Sinking fund on local debentures					
Equity in H-E.P.C. systems.....	50,548.25	2,325.71	34,460.79	21,703.66	1,931.25
Other assets.....			642.50	21.54	
Total assets.....	189,774.95	6,142.21	95,524.07	107,539.87	10,204.73
Deficit.....		4,958.66			1,524.01
Total.....	189,774.95	11,100.87	95,524.07	107,539.87	11,728.74
<b>LIABILITIES</b>					
Debenture balance.....	28,498.00		1,666.16	27,750.07	2,203.71
Accounts payable.....	3,050.76	4,776.93	516.15	860.35	1,586.06
Bank overdraft.....				580.23	
Other liabilities.....			642.50		
Total liabilities.....	31,548.76	4,776.93	2,824.81	29,190.65	3,789.77
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	50,548.25	2,325.71	34,460.79	21,703.66	1,931.25
For depreciation.....	39,268.51	1,236.18	12,904.85	17,699.93	2,211.43
Other reserves.....					
Total reserves.....	89,816.76	3,561.89	47,365.64	39,403.59	4,142.68
<b>SURPLUS</b>					
Debentures paid.....	59,002.00	2,762.05	19,467.38	36,449.93	3,796.29
Local sinking fund.....					
Operating surplus.....	9,407.43		25,866.24	2,495.70	
Total surplus.....	68,409.43	2,762.05	45,333.62	38,945.63	3,796.29
Total liabilities, reserves and surplus	189,774.95	11,100.87	95,524.07	107,539.87	11,728.74
Percentage of net debt to total assets	22.7	125.2	4.6	34.0	45.8



## "A"—Continued

## Hydro Municipalities as at December 31, 1934

Lucknow 964	Markdale 792	Meaford 2,687	Midland 6,925	Mildmay 714	Mount Forest 1,839	Neustadt 458	Orange- ville 2,785
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
17,134.20	10,387.33	30,617.99	94,109.36	6,016.98	22,761.55	9,970.79	32,489.12
4,554.12	4,151.74	7,596.22	23,094.86	1,657.05	6,492.49	3,634.93	8,154.49
4,779.42	3,497.17	7,436.55	36,598.27	2,287.72	7,402.37	2,017.85	11,702.17
1,391.17	1,314.08	3,215.81	18,735.40	502.80	2,302.55	496.41	7,532.55
2,632.06	658.93	2,174.25	4,885.00	860.47	2,094.00	1,521.48	6,373.39
	2,080.65	3,476.43		849.00	3,810.95	1,097.60	3,204.99
30,490.97	22,870.70	58,026.63	282,502.66	12,174.02	49,275.66	18,739.06	73,210.78
2,063.04	1,810.91	3,312.77	75.00	2,746.68		108.56	5,331.15
4,500.00	1,255.13	16,853.60	29,000.00		4,000.00		2,500.00
1,978.96	1,434.60	2,174.40	22,849.24	832.60	2,109.87	55.48	2,289.45
	35.00	58.36	3,834.85	35.10	143.00	27.72	303.18
10,495.63	5,733.33	14,752.42	137,711.90	550.29	18,334.63	6,056.57	24,348.09
		949.05					
49,528.60	33,139.67	96,127.23	475,973.65	16,338.69	73,863.16	24,987.39	107,982.65
						18,387.61	
49,528.60	33,139.67	96,127.23	475,973.65	16,338.69	73,863.16	43,375.00	107,982.65
9,783.62	5,157.38	34,814.09	25,570.31	11,895.23	11,051.50	5,702.32	5,581.96
1,312.21	656.96		287.70		250.00	13,335.78	1,033.31
			30,496.09		1,043.58		
	20.00	949.05	760.54				
11,095.83	5,834.34	35,763.14	57,114.64	11,895.23	12,345.08	19,038.10	6,615.27
10,495.63	5,733.33	14,752.42	137,711.90	550.29	18,334.63	6,056.57	24,348.09
5,882.57	5,342.15	10,313.60	120,352.72	421.00	15,527.12	6,982.65	21,421.64
			2,000.00				
16,378.20	11,075.48	25,066.02	260,064.62	971.29	33,861.75	13,039.22	45,769.73
9,939.74	3,842.62	14,546.11	86,499.68	408.27	19,907.10	11,297.68	30,318.04
12,114.83	12,387.23	20,751.96	72,294.71	3,063.90	7,749.23		25,279.61
22,054.57	16,229.85	35,298.07	158,794.39	3,472.17	27,656.33	11,297.68	55,597.65
49,528.60	33,139.67	96,127.23	475,973.65	16,338.69	73,863.16	43,375.00	107,982.65
28.4	21.3	44.0	16.9	75.3	22.2	100.6	7.9

## STATEMENT

## Balance Sheets of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	Owen Sound 12,894	Paisley 713	Penetang- uishene 4,352	Port Elgin 1,351	Port McNicoll 880
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	25,978.31		2,262.10	111.25	369.08
Substation equipment.....	12,919.97	1,933.26	7,076.39		
Distribution system—overhead.....	107,412.59	11,562.78	41,407.57	25,361.21	7,805.88
Distribution system—underground					
Line transformers.....	46,325.69	1,602.53	15,661.52	5,785.56	1,421.48
Meters.....	55,917.96	2,958.69	13,848.72	6,137.25	2,527.13
Street light equipment, regular.....	27,609.38	1,045.51	3,511.38	2,057.10	450.93
Street light equipment, ornamental					
Miscellaneous construction expense	3,482.75	869.45	1,410.69	575.76	649.25
Steam or hydraulic plant.....	33,282.00				
Old plant.....		1,745.00		4,213.00	
Total plant.....	312,928.65	21,717.22	85,178.37	44,241.13	13,223.75
Bank and cash balance.....	17,559.76	1,160.96		5,676.90	39.23
Securities and investments.....		2,500.00	1,016.65	10,000.00	
Accounts receivable.....	24,394.29	989.97	6,275.80	1,187.36	664.01
Inventories.....	9,185.40		334.71		
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	115,170.28	6,068.38	39,550.40	2,772.37	3,726.13
Other assets.....					
Total assets.....	479,238.38	32,436.53	132,355.93	63,877.76	17,653.12
Deficit.....					
Total.....	479,238.38	32,436.53	132,355.93	63,877.76	17,653.12
LIABILITIES					
Debenture balance.....		9,308.10	13,853.27	36,525.67	1,556.15
Accounts payable.....	88.47	30.37	6,448.03	3,370.21	758.63
Bank overdraft.....			845.41		
Other liabilities.....	2,854.72		37.50	20.00	
Total liabilities.....	2,943.19	9,338.47	21,184.21	39,915.88	2,314.78
RESERVES					
For equity in H-E.P.C. systems.....	115,170.28	6,068.38	39,550.40	2,772.37	3,726.13
For depreciation.....	62,577.61	4,114.52	32,516.86	3,055.18	4,384.29
Other reserves.....					
Total reserves.....	177,747.89	10,182.90	72,067.26	5,827.55	8,110.42
SURPLUS					
Debentures paid.....	141,000.00	6,691.90	27,146.73	5,474.33	5,743.85
Local sinking fund.....					
Operating surplus.....	157,547.80	6,223.26	11,957.73	12,660.00	1,484.07
Total surplus.....	298,547.80	12,915.16	39,104.46	18,134.33	7,227.92
Total liabilities, reserves and surplus.....	479,238.38	32,436.53	132,355.93	63,877.76	17,653.12
Percentage of net debt to total assets.....	0.8	35.4	22.8	65.3	16.6

## “A”—Continued

## Hydro Municipalities as at December 31, 1934

Port Perry 1,104	Priceville P.V.	Ripley 465	Rosseau 286	Shelburne 1,121	Southamp- ton 1,356	Stayner 995	Sunderland P.V.
\$ c.	\$ c. 68.00	\$ c.	\$ c.	\$ c. 800.00	\$ c. 25.00	\$ c.	\$ c.
2,564.65				566.60		200.00	
19,042.38	4,717.36	9,975.19	7,118.65	14,735.46	20,157.66	12,745.53	4,151.87
4,676.69	702.86	3,551.90	2,204.63	6,265.47	5,868.54	5,603.35	1,365.63
4,056.46	380.00	1,458.83	1,051.87	6,538.06	7,025.34	5,295.47	2,040.94
1,037.90	139.88	844.33	451.87	1,059.60	1,958.73	966.80	627.74
159.38	833.90	1,198.39	1,126.07	2,263.26	1,046.26	326.63	211.49
				739.50	2,077.00	4,132.41	2,030.00
31,537.46	6,842.00	17,028.64	11,953.09	32,967.95	38,158.53	29,270.19	10,427.67
988.50	256.65	1,108.07	1,318.01	1,464.78	2,733.20	1,171.89	175.05
10,000.00				2,500.00		4,000.00	1,000.00
1,262.07	135.37	558.87	786.76	795.03	1,920.73	1,105.75	646.69
17.28	1.22	25.90	9.36	55.58			15.20
8,939.00	966.59	4,390.87	1,149.44	11,269.10	2,790.45	9,696.14	6,707.68
363.26						75.20	6.00
53,107.57	8,201.83	23,112.35	15,216.66	49,052.44	45,602.91	45,319.17	18,978.29
	7,660.58						
53,107.57	15,862.41	23,112.35	15,216.66	49,052.44	45,602.91	45,319.17	18,978.29
14,168.95	2,572.41	9,984.68	12,646.60	2,917.36	21,488.21	799.63	2,773.16
8.32	6,130.52		74.98	37.25	4.20	872.94	40.83
363.26		95.00			.74	75.20	6.00
14,540.53	8,702.93	10,079.68	12,721.58	2,954.61	21,493.15	1,747.77	2,819.99
8,939.00	966.59	4,390.87	1,149.44	11,269.10	2,790.45	9,696.14	6,707.68
6,531.31	1,765.30	3,452.46	654.47	10,767.27	2,548.73	9,882.87	3,463.60
			187.30				
15,470.31	2,731.89	7,843.33	1,991.21	22,036.37	5,339.18	19,579.01	10,171.28
5,712.71	4,427.59	3,987.26	353.40	17,002.64	11,511.79	13,200.37	4,026.84
17,384.02		1,202.08	150.47	7,058.82	7,258.79	10,792.02	1,960.18
23,096.73	4,427.59	5,189.34	503.87	24,061.46	18,770.58	23,992.39	5,987.02
53,107.57	15,862.41	23,112.35	15,216.66	49,052.44	45,602.91	45,319.17	18,978.29
32.9	120.3	53.9	90.4	7.8	50.2	4.9	23.0



## STATEMENT

## Balance Sheets of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	Tara	Teeswater	Thornton	Tottenham	Uxbridge
Population.....	505	796	P.V.	556	1,512
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....					40.00
Substation equipment.....		330.31		358.50	2,657.65
Distribution system—overhead.....	11,112.22	16,987.54	6,403.82	8,107.22	13,434.36
Distribution system—underground.....					
Line transformers.....	2,176.95	4,760.65	860.41	1,117.48	3,898.53
Meters.....	1,739.29	3,315.65	817.56	2,109.02	4,510.81
Street light equipment, regular.....	430.59	1,406.90	381.95	460.17	1,259.64
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	1,269.05	1,894.49	300.35	1,278.13	897.92
Steam or hydraulic plant.....					
Old plant.....		4,976.86		286.45	
Total plant.....	16,728.10	33,672.40	8,764.09	13,716.97	26,698.91
Bank and cash balance.....	691.48	889.67	612.65	758.33	
Securities and investments.....		1,000.00			8,000.00
Accounts receivable.....	590.64	582.92	59.13	218.96	1,823.56
Inventories.....	40.80	16.73			
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	5,155.34	7,178.07	1,994.06	6,276.06	9,595.22
Other assets.....				185.27	
Total assets.....	23,206.36	43,339.79	11,429.93	21,155.59	46,117.69
Deficit.....	3,434.30		4,001.83	3,573.06	
Total.....	26,640.66	43,339.79	15,431.76	24,728.65	46,117.69
LIABILITIES					
Debenture balance.....	4,502.99	10,950.62	2,938.78	7,225.57	10,827.96
Accounts payable.....		800.36	1,899.70	276.55	
Bank overdraft.....					764.00
Other liabilities.....		16.00		185.27	30.15
Total liabilities.....	4,502.99	11,766.98	4,838.48	7,687.39	11,622.11
RESERVES					
For equity in H-E.P.C. systems.....	5,155.34	7,178.07	1,994.06	6,276.06	9,595.22
For depreciation.....	5,985.82	4,986.13	4,038.00	5,023.67	5,055.64
Other reserves.....					
Total reserves.....	11,140.66	12,164.20	6,032.06	11,299.73	14,650.86
SURPLUS					
Debentures paid.....	10,997.01	17,049.38	4,561.22	5,741.53	5,379.63
Local sinking fund.....					
Operating surplus.....		2,359.23			14,465.09
Total surplus.....	10,997.01	19,408.61	4,561.22	5,741.53	19,844.72
Total liabilities, reserves and surplus.....	26,640.66	43,339.79	15,431.76	24,728.65	46,117.69
Percentage of net debt to total assets.....	24.9	32.5	51.3	51.7	31.8

## “A”—Continued

## Hydro Municipalities as at December 31, 1934

Victoria Harbor 1,126	Walkerton 2,370	Waubau- shene P.V.	Warton 1,815	Winder- mere 130	Wingham 1,923	Wood- ville 420	GEORGIAN BAY SYSTEM SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
			200.00		9,163.34		110,898.15
					4,863.91		171,155.63
8,616.56	40,708.81	6,985.02	21,293.08	9,190.19	40,474.75	2,989.66	1,156,223.31
							66,437.67
1,278.18	10,877.32	1,907.40	5,554.58	2,908.65	15,868.55	2,127.54	383,880.75
2,302.00	10,971.29	1,938.82	5,810.89	1,002.87	14,486.02	2,179.77	409,073.72
366.32	2,513.25	221.79	1,960.48	247.26	3,430.56	217.55	133,594.93
207.60	2,213.76	361.89	5,467.15	496.50	4,613.19	314.93	97,997.91
					14,711.99		47,993.99
500.00	4,897.60		3,242.00		12,320.02	2,182.50	167,276.17
13,270.66	72,182.03	11,414.92	43,528.18	13,845.47	119,932.33	10,011.95	2,744,532.23
310.12	6,249.07	1,622.17	267.17	659.10	2,378.27	1,149.27	110,988.92
			2,000.00		7,000.00	5,000.00	207,056.11
894.14	2,828.16	368.24	1,781.97	640.63	5,026.37	961.82	141,927.78
	536.22	13.80	23.26		3,510.83		23,569.14
							12,274.42
4,051.13	5,485.64	2,305.71	4,406.07	938.52	20,605.32	6,721.22	968,150.20
							4,759.46
18,526.05	87,281.12	15,724.84	52,006.65	16,083.72	158,453.12	23,844.26	4,213,258.26
							57,006.36
18,526.05	87,281.12	15,724.84	52,006.65	16,083.72	158,453.12	23,844.26	4,270,264.62
515.57	56,998.60	287.82	35,081.31	6,159.25	33,472.52	2,623.97	617,842.13
68.65		17.50	1.98	6,428.27		87.74	71,562.30
							45,619.12
	5.00		20.00	345.00	430.00		9,375.57
584.22	56,998.60	305.32	35,103.29	12,932.52	33,902.52	2,711.71	744,399.12
4,051.13	5,485.64	2,305.71	4,406.07	938.52	20,605.32	6,721.22	968,150.20
4,086.92	3,848.00	2,423.57	2,792.94	1,181.88	25,249.56	2,308.72	733,829.54
				210.47			4,497.77
8,138.05	9,333.64	4,729.28	7,199.01	2,330.87	45,854.88	9,029.94	1,706,477.51
5,984.43	6,006.40	3,212.18	2,318.69	399.01	62,632.98	2,876.03	996,180.81
							12,274.42
3,819.35	14,942.48	7,478.06	7,385.66	421.32	16,062.74	9,226.58	810,932.76
9,803.78	20,948.88	10,690.24	9,704.35	820.33	78,695.72	12,102.61	1,819,387.99
18,526.05	87,281.12	15,724.84	52,006.65	16,083.72	158,453.12	23,844.26	4,270,264.62
4.0	69.7	2.3	73.7	85.4	24.6	15.8	22.6

## STATEMENT

## Balance Sheets of Electrical Departments of

EASTERN ONTARIO  
SYSTEM

Municipality.....	Alexandria	Apple Hill	Athens	Bath	Belleville
Population.....	1,928	P.V.	652	355	14,012
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		169.06			36,108.70
Substation equipment.....					2,338.65
Distribution system—overhead.....	28,034.19	2,886.41	13,972.80	5,818.50	106,526.64
Distribution system—underground.....					
Line transformers.....	8,333.04	1,288.37	1,757.05	1,011.93	23,903.92
Meters.....	6,900.32	1,000.21	2,555.40	690.71	56,330.02
Street light equipment, regular.....	2,224.20	421.12	698.90	554.37	17,298.08
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	5,099.23	210.33	1,011.61	727.38	4,390.86
Steam or hydraulic plant.....					
Old plant.....	4,466.89	709.55			
Total plant.....	55,057.87	6,685.05	19,995.76	8,802.89	246,896.87
Bank and cash balance.....	5,785.00	335.11	455.25	126.56	21,600.88
Securities and investments.....	5,000.00		2,000.00		5,000.00
Accounts receivable.....	2,877.32	308.90	2,074.88	20.90	35,118.03
Inventories.....					6,882.49
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	19,183.90	1,883.92	2,888.80	659.22	73,972.50
Other assets.....					
Total assets.....	87,904.09	9,212.98	27,414.69	9,609.57	389,470.77
Deficit.....		256.46		259.44	
Total.....	87,904.09	9,469.44	27,414.69	9,869.01	389,470.77
LIABILITIES					
Debenture balance.....	17,149.84	3,026.50	11,234.33	7,057.99	37,000.00
Accounts payable.....	5,737.15	92.26	388.00	1,169.79	339.10
Bank overdraft.....					
Other liabilities.....	386.23			44.00	7,450.89
Total liabilities.....	23,273.22	3,118.76	11,622.33	8,271.78	44,789.99
RESERVES					
For equity in H-E.P.C. systems....	19,183.90	1,883.92	2,888.80	659.22	73,972.50
For depreciation.....	11,784.76	1,493.26	2,409.75	496.00	25,051.64
Other reserves.....	550.00		37.89		1,373.29
Total reserves.....	31,518.66	3,377.18	5,336.44	1,155.22	100,397.43
SURPLUS					
Debentures paid.....	30,984.00	2,973.50	2,765.67	442.01	139,000.00
Local sinking fund.....					
Operating surplus.....	2,128.21		7,690.25		105,283.35
Total surplus.....	33,112.21	2,973.50	10,455.92	442.01	244,283.35
Total liabilities, reserves and surplus.....	87,904.09	9,469.44	27,414.69	9,869.01	389,470.77
Percentage of net debt to total assets.....	33.9	42.5	47.4	92.4	14.2



## "A"—Continued

## Hydro Municipalities as at December 31, 1934

Bloomfield 619	Bowman- ville 3,626	Brighton 1,442	Brockville 9,654	Cardinal 1,395	Carleton Place 4,272	Chesterville 970
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
410.00			45,295.14		6,255.32	250.00
11,121.71	43,954.11	14,582.03	1,000.87		2,471.63	
			85,340.59	11,616.99	41,989.66	7,946.71
2,230.77	7,599.91	4,157.45	36,665.83	2,743.16	11,101.56	3,245.64
2,724.61	17,166.45	6,486.55	43,031.49	2,361.22	16,393.45	4,195.17
908.20	2,921.51	821.98	22,615.59	385.27	6,663.28	526.97
1,403.42	2,368.39	223.84	2,865.62	728.63	3,504.89	658.08
			54,960.86			
			4,821.76	3,474.80	5,293.19	
18,798.71	74,010.37	26,271.85	296,597.75	21,310.07	93,672.98	16,822.57
99.15	15,607.75	25.00	200.00	1,639.92	9,608.89	473.11
			115,000.00		20,000.00	9,000.00
25.95	10,027.40	5,565.63	20,480.45	1,099.57	9,189.84	662.92
	2,303.30	5,198.11	2,551.04		834.36	564.34
3,033.08	17,224.43	4,882.72	99,600.06	1,842.06	44,659.69	18,262.73
21,956.89	119,173.25	41,943.31	534,429.30	25,891.62	177,965.76	45,785.67
21,956.89	119,173.25	41,943.31	534,429.30	25,891.62	177,965.76	45,785.67
6,774.11	58,742.95	21,666.62		13,044.78	41,087.30	922.78
184.89			7,423.76		31.61	31.10
		1,151.02	5,897.61			
27.00	714.00	94.78	63.00		784.52	
6,986.00	59,456.95	22,912.42	13,384.37	13,044.78	41,903.43	953.88
3,033.08	17,224.43	4,882.72	99,600.06	1,842.06	44,659.69	18,262.73
4,477.96	4,822.50	2,257.55	80,543.25	1,266.80	10,706.39	7,876.34
			10,291.15		1,467.14	
7,511.04	22,046.93	7,140.27	190,434.46	3,108.86	56,833.22	26,139.07
4,425.89	12,257.05	3,333.38	226,657.54	1,955.22	24,912.70	5,577.22
3,033.96	25,412.32	8,557.24	103,952.93	7,782.76	54,316.41	13,115.50
7,459.85	37,669.37	11,890.62	330,610.47	9,737.98	79,229.11	18,692.72
21,956.89	119,173.25	41,943.31	534,429.30	25,891.62	177,965.76	45,785.67
36.4	58.3	61.9	3.1	54.2	31.0	3.5

## STATEMENT

## Balance Sheets of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Continued

Municipality.....	Cobourg	Colborne	Deseronto	Finch	Hastings
Population.....	5,556	1,040	1,399	393	753
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....					
Substation equipment.....	1,668.35		161.18		
Distribution system—overhead.....	65,066.47	8,264.71	9,716.54	7,467.30	14,157.12
Distribution system—underground					
Line transformers.....	16,116.92	676.54	1,612.27	1,393.35	1,771.80
Meters.....	24,965.76	1,465.28	4,771.27	1,728.20	2,973.20
Street light equipment, regular.....	8,410.08	1,321.40	432.60	435.62	1,160.09
Street light equipment, ornamental					
Miscellaneous construction expense	4,063.48	2,465.45	289.11	23.24	703.25
Steam or hydraulic plant.....					
Old plant.....					1,733.13
Total plant.....	120,291.06	14,193.38	16,982.97	11,047.71	22,498.59
Bank and cash balance.....	21,705.22	2,111.42	2,948.07	61.43	440.95
Securities and investments.....				3,000.00	5,500.00
Accounts receivable.....	5,231.66	464.24	1,245.04	452.48	524.84
Inventories.....	2,674.15	389.76	814.78		
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	12,854.89	754.03	2,625.67	2,086.80	1,161.15
Other assets.....					
Total assets.....	162,756.98	17,912.83	24,616.53	16,648.42	30,125.53
Deficit.....					
Total.....	162,756.98	17,912.83	24,616.53	16,648.42	30,125.53
LIABILITIES					
Debenture balance.....	99,254.87	11,762.36	9,332.89	5,402.77	19,092.00
Accounts payable.....	611.55			477.21	
Bank overdraft.....					
Other liabilities.....	3,763.00	181.00	328.12		86.00
Total liabilities.....	103,629.42	11,943.36	9,661.01	5,879.98	19,178.00
RESERVES					
For equity in H-E.P.C. systems....	12,854.89	754.03	2,625.67	2,086.80	1,161.15
For depreciation.....	6,248.12	408.00	1,289.92	1,340.60	1,451.60
Other reserves.....				60.00	
Total reserves.....	19,103.01	1,162.03	3,915.59	3,487.40	2,612.75
SURPLUS					
Debentures paid.....	6,738.63	432.23	5,667.11	1,597.23	1,908.00
Local sinking fund.....					
Operating surplus.....	33,285.92	4,375.21	5,372.82	5,683.81	6,426.78
Total surplus.....	40,024.55	4,807.44	11,039.93	7,281.04	8,334.78
Total liabilities, reserves and surplus	162,756.98	17,912.83	24,616.53	16,648.42	30,125.53
Percentage of net debt to total assets	69.1	69.6	43.9	40.4	66.2

## "A"—Continued

## Hydro Municipalities as at December 31, 1934

Havelock	Kemptville	Kingston	Lakefield	Lanark	Lancaster	Lindsay
1,249	1,227	23,260	1,387	623	575	6,963
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
572.90		185,763.47	3,137.97			10,556.68
19,560.23	20,129.16	51,600.29				3,176.56
		167,935.59	21,935.50	6,201.44	6,439.01	73,472.53
		170,761.43				
2,402.18	6,374.09	59,688.54	5,466.60	1,197.54	962.35	21,145.02
5,303.64	6,496.99	100,772.47	7,110.16	1,835.39	1,423.52	30,296.73
1,844.93	1,063.16	72,368.22	1,876.16	682.38	650.65	10,337.90
4,590.91	5,862.66	46,293.11	3,757.38	330.38	1,063.55	1,436.38
2,420.45		15,890.14				
			3,445.25			
36,695.24	39,926.06	871,073.26	46,729.02	10,247.13	10,544.08	150,421.80
1,048.31	290.83	26,676.13	1,255.19	952.04	607.93	11,949.45
9,000.00	20,000.00	272,175.00	8,000.00	1,982.05		45,000.00
366.34	3,409.60	34,674.96	1,205.86	525.58	58.04	6,162.69
	1,050.01	6,963.79				424.26
		16,182.00				
6,524.31	11,211.40		5,859.80	3,500.74	4,670.12	42,531.42
		2,854.37				
53,634.20	75,887.90	1,230,599.51	63,049.87	17,207.54	15,880.17	256,489.62
					6,313.34	
53,634.20	75,887.90	1,230,599.51	63,049.87	17,207.54	22,193.51	256,489.62
14,555.50	17,596.78	77,490.01	25,104.82	2,941.68	2,543.64	103,258.05
	2,753.16	3,087.75		28.39	4,783.52	33.87
		798.38	420.96		95.00	1,843.89
14,555.50	20,349.94	81,376.14	25,525.78	2,970.07	7,422.16	105,135.81
6,524.31	11,211.40		5,859.80	3,500.74	4,670.12	42,531.42
7,793.77	7,620.24	144,706.02	10,803.07	2,030.25	2,674.45	20,009.39
		205,138.68				
14,318.08	18,831.64	349,844.70	16,662.87	5,530.99	7,344.57	62,540.81
18,344.50	7,403.22	234,409.99	8,395.18	4,619.79	7,426.78	26,741.95
		16,182.00				
6,416.12	29,303.10	548,786.68	12,466.04	4,086.69		62,071.05
24,760.62	36,706.32	799,378.67	20,861.22	8,706.48	7,426.78	88,813.00
53,634.20	75,887.90	1,230,599.51	63,049.87	17,207.54	22,193.51	256,489.62
30.9	31.5	5.4	44.6	21.7	65.9	49.1



## STATEMENT

## Balance Sheets of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Continued

Municipality.....	Madoc	Marmora	Martintown	Maxville
Population.....	1,067	1,015	P.V.	725
<b>ASSETS</b>	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	100.00		126.15	
Substation equipment.....				407.79
Distribution system—overhead.....	10,613.58	12,678.71	2,709.88	11,494.86
Distribution system—underground.....				
Line transformers.....	2,773.82	2,378.99	690.33	1,540.96
Meters.....	4,823.51	3,569.48	871.51	2,465.30
Street light equipment, regular.....	1,500.00	1,284.09	335.26	1,605.64
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	203.30	2,000.91	653.27	2,394.86
Steam or hydraulic plant.....				
Old plant.....		573.62		
Total plant.....	20,014.21	22,485.80	5,386.40	19,909.41
Bank and cash balance.....	2,740.53	4,437.79	174.46	876.20
Securities and investments.....		560.69		
Accounts receivable.....	909.98	673.85	615.03	651.74
Inventories.....				
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	3,123.48	2,585.75	1,194.97	5,604.74
Other assets.....				
Total assets.....	26,788.20	30,743.88	7,370.86	27,042.09
Deficit.....			1,360.20	
Total.....	26,788.20	30,743.88	8,731.06	27,042.09
<b>LIABILITIES</b>				
Debenture balance.....	493.35	6,968.36		6,688.35
Accounts payable.....		174.64	51.10	
Bank overdraft.....				
Other liabilities.....	94.00	40.00		55.00
Total liabilities.....	587.35	7,183.00	51.10	6,743.35
<b>RESERVES</b>				
For equity in H-E.P.C. systems.....	3,123.48	2,585.75	1,194.97	5,604.74
For depreciation.....	38.85	4,292.60	1,322.37	4,117.30
Other reserves.....			162.62	
Total reserves.....	3,162.33	6,878.35	2,679.96	9,722.04
<b>SURPLUS</b>				
Debentures paid.....	13,506.65	10,697.75	6,000.00	9,311.65
Local sinking fund.....				
Operating surplus.....	9,531.87	5,984.78		1,265.05
Total surplus.....	23,038.52	16,682.53	6,000.00	10,576.70
Total liabilities, reserves and surplus.....	26,788.20	30,743.88	8,731.06	27,042.09
Percentage of net debt to total assets.....	2.5	25.5	0.8	31.5

## "A"—Continued

## Hydro Municipalities as at December 31, 1934

Napanee	Norwood	Omemeë	Oshawa	Ottawa	Perth	Peterborough
2,827	868	551	22,444	132,551	4,052	22,850
\$ c. 2,495.14	\$ c. 457.53	\$ c. 360.32	\$ c. 56,776.03	\$ c. 356,107.80	\$ c. 5,101.01	\$ c. 75,202.75
39,541.22	23,178.85	11,239.37	184,826.61	706,403.51	3,932.82	98,652.41
				726,782.28	47,128.69	215,275.06
8,069.18	4,609.18	2,676.00	41,495.31	173,164.85		
16,422.24	4,822.00	2,471.56	98,871.03	308,749.13	22,427.35	97,775.33
3,957.70	1,848.52	667.86	15,857.18	274,361.60	21,250.52	94,908.79
				117,462.18	4,157.07	54,071.29
2,762.59	4,139.32	1,540.92	6,415.16	33,307.59	4,882.62	52,450.46
	2,447.51		8,831.65		23,606.94	29,771.74
73,248.07	41,502.91	18,956.03	413,072.97	2,696,338.94	132,487.02	718,107.83
8,706.94	3,513.23	2,683.72	18,547.76	32,728.07	13,398.70	330.00
	9,000.00			38,000.00	36,084.67	
8,097.39	192.34	95.10	60,403.81	102,693.49	7,869.94	29,796.26
4,143.52			7,306.40	18,303.58	7,787.00	3,568.09
				667,485.50		249,030.17
18,124.41	3,155.66		225,862.78	65,541.31	38,313.32	140,270.73
			108.32		246.11	
112,320.33	57,364.14	21,734.85	725,302.04	3,621,090.89	236,186.76	1,141,103.08
112,320.33	57,364.14	21,734.85	725,302.04	3,621,090.89	236,186.76	1,141,103.08
32,533.28	26,673.19	3,197.79	238,083.23	916,661.33	49,229.69	527,920.00
			37,078.52	38,251.52	200.00	13,651.24
524.84	347.90	65.00	21,284.66		2,109.14	6,413.69
						168.00
33,058.12	27,021.09	3,262.79	296,446.41	954,912.85	51,538.83	548,152.93
18,124.41	3,155.66		225,862.78	65,541.31	38,313.32	140,270.73
3,651.48	10,065.80	6,483.48	46,558.84	958,387.56	37,510.96	105,349.74
3,042.69			17,449.93	165,426.43		9,425.22
24,818.58	13,221.46	6,483.48	289,871.55	1,189,355.30	75,824.28	255,045.69
37,466.72	10,426.81	8,802.21	71,916.77	63,338.67	59,170.31	
				667,485.50		249,030.17
16,976.91	6,694.78	3,186.37	67,067.31	745,998.57	49,653.34	88,874.29
54,443.63	17,121.59	11,988.58	138,984.08	1,476,822.74	108,823.65	337,904.46
112,320.33	57,364.14	21,734.85	725,302.04	3,621,090.89	236,186.76	1,141,103.08
35.1	49.8	15.0	59.4	9.9	25.2	39.8

## STATEMENT

## Balance Sheets of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Continued

Municipality.....	Pictou	Port Hope	Prescott	Richmond	Russell
Population.....	3,313	4,520	3,083	413	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	10,806.23	6,757.73	2,761.54		
Substation equipment.....	2,004.66				
Distribution system—overhead.....	39,572.57	48,142.81	38,951.00	6,192.09	7,745.13
Distribution system—underground.....					
Line transformers.....	12,677.58	11,882.74	13,747.50	769.40	1,382.48
Meters.....	17,084.91	19,516.20	18,174.69	1,208.91	1,521.67
Street light equipment, regular.....	4,275.67	2,633.00	2,080.97	173.98	509.24
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	2,702.42	1,095.61	899.17	642.54	1,199.88
Steam or hydraulic plant.....					
Old plant.....	3,105.28		11,808.35		
Total plant.....	92,229.32	90,028.09	88,423.22	8,986.92	12,358.40
Bank and cash balance.....	50.00	4,866.02		399.90	2,544.02
Securities and investments.....	14,000.00		3,000.00		
Accounts receivable.....	4,726.21	6,461.92	7,148.14	190.23	218.91
Inventories.....	3,733.99	1,273.26			
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	24,810.58	22,519.90	28,195.52	1,143.40	3,199.75
Other assets.....	1,230.95				
Total assets.....	140,781.05	125,149.19	126,766.88	10,720.45	18,321.08
Deficit.....					
Total.....	140,781.05	125,149.19	126,766.88	10,720.45	18,321.08
LIABILITIES					
Debenture balance.....		20,910.51		5,267.59	6,771.77
Accounts payable.....	2,452.00	1,956.60	3,153.42		31.98
Bank overdraft.....	1,177.98		810.82		
Other liabilities.....	1,186.00	3,371.85	161.51	35.25	
Total liabilities.....	4,815.98	26,238.96	4,125.75	5,302.84	6,803.75
RESERVES					
For equity in H-E.P.C. systems.....	24,810.58	22,519.90	28,195.52	1,143.40	3,199.75
For depreciation.....	13,787.85	7,169.44	32,687.29	1,041.92	1,760.68
Other reserves.....	1,401.01			52.84	
Total reserves.....	39,999.44	29,689.34	60,882.81	2,238.16	4,960.43
SURPLUS					
Debentures paid.....	5,730.32	58,089.49	23,979.34	1,232.41	3,228.23
Local sinking fund.....					
Operating surplus.....	90,235.31	11,131.40	37,778.98	1,947.04	3,328.67
Total surplus.....	95,965.63	69,220.89	61,758.32	3,179.45	6,556.90
Total liabilities, reserves and surplus.....	140,781.05	125,149.19	126,766.88	10,720.45	18,321.08
Percentage of net debt to total assets.....	4.1	25.6	4.2	55.4	45.0



## “A”—Continued

## Hydro Municipalities as at December 31, 1934

Smiths Falls	Stirling	Trenton	Tweed	Warkworth	Wellington	Westport
7,502	949	6,288	1,287	P.V.	920	738
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
19,928.85	8,410.00	5,114.41			200.00	
4,745.66	7,042.12	23,080.03			499.80	
86,386.32	5,316.21	91,606.75	10,241.17	5,494.98	14,660.44	7,155.76
25,512.16	3,711.12	20,877.13	3,052.41	716.39	3,716.70	1,001.23
32,470.38	4,885.09	26,245.89	4,831.03	1,526.32	5,286.84	1,353.44
9,241.13	2,549.82	13,517.35	1,035.28	309.88	1,131.40	526.70
6,213.12	769.14	2,647.27	315.13	609.19	774.55	1,335.26
38,001.49						
21,513.48				3,618.02	2,477.92	1,713.00
244,012.59	32,683.50	183,088.83	19,475.02	12,274.78	28,747.65	13,085.39
8,263.70	3,792.52	14,448.11	2,661.42	883.75	10.00	245.86
38,000.00	4,276.75			2,500.00	5,000.00	2,500.00
9,612.73	1,667.57	14,763.82	1,487.08	419.35	705.56	543.59
1,160.14	1,104.11	4,693.15	1,162.32			
57,974.92	3,796.18	23,666.97	3,343.93	1,796.65	4,748.47	1,410.18
359,024.08	47,320.63	240,660.88	28,129.77	17,874.53	39,211.68	17,785.02
359,024.08	47,320.63	240,660.88	28,129.77	17,874.53	39,211.68	17,785.02
56,442.82		136,515.30	12,383.20	9,166.04	10,386.74	12,902.32
60.20						9.01
0.33	134.50	3,011.71	255.69		2,429.12	
					2.25	
56,503.35	134.50	139,527.01	12,638.89	9,166.04	12,818.11	12,911.33
57,974.92	3,796.18	23,666.97	3,343.93	1,796.65	4,748.47	1,410.18
65,466.55	7,589.27	10,564.00	2,416.13	1,409.32	5,794.54	454.56
500.00		1,108.37				
123,941.47	11,385.45	35,339.34	5,760.06	3,205.97	10,543.01	1,864.74
141,182.18	10,000.00	28,484.70	6,616.80	1,833.96	6,613.26	2,097.68
37,397.08	25,800.68	37,309.83	3,114.02	3,668.56	9,237.30	911.27
178,579.26	35,800.68	65,794.53	9,730.82	5,502.52	15,850.56	3,008.95
359,024.08	47,320.63	240,660.88	28,129.77	17,874.53	39,211.68	17,785.02
18.8	0.3	64.3	51.0	57.2	37.2	78.8

## STATEMENT

## Balance Sheets of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Concluded

Municipality.....	Whitby	Williamsburg	Winchester	EASTERN ONTARIO SYSTEM SUMMARY
Population.....	5,297	P.V.	930	
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....	6,394.26		299.85	844,118.09
Substation equipment.....	34,200.41			945,187.49
Distribution system—overhead.....	44,648.41	2,581.09	9,564.12	2,497,863.90
Distribution system—underground				343,926.28
Line transformers.....	11,005.79	1,749.87	2,881.28	830,715.19
Meters.....	14,854.12	1,926.37	4,974.77	1,029,676.38
Street light equipment, regular	4,568.27	152.11	719.87	402,794.12
Street light equipment, ornamental				
Miscellaneous construction expense	5,715.59	135.85	583.12	230,465.02
Steam or hydraulic plant.....				108,852.49
Old plant.....	1,340.13		1,100.00	138,272.66
Plant not distributed.....				
Total plant.....	122,726.98	6,545.29	20,123.01	7,371,871.62
Bank and cash balance.....	5,135.01	5,025.08	2,133.50	264,599.88
Securities and investments.....		4,500.00	7,000.00	685,079.16
Accounts receivable.....	5,660.73	1,577.91	990.79	409,946.59
Inventories.....	168.55		46.80	85,101.30
Sinking fund on local debentures				932,697.67
Equity in H-E.P.C. systems.....	24,327.91	2,956.47	11,893.11	1,101,434.53
Other assets.....				4,439.75
Total assets.....	158,019.18	20,604.75	42,187.21	10,855,170.50
Deficit.....				8,189.44
Total.....	158,019.18	20,604.75	42,187.21	10,863,359.94
<b>LIABILITIES</b>				
Debenture balance.....	34,343.65		5,694.12	2,725,275.20
Accounts payable.....	13.41	39.18	182.28	124,478.21
Bank overdraft.....				17,880.24
Other liabilities.....	757.99	511.52	5.00	51,202.91
Total liabilities.....	35,115.05	550.70	5,881.40	2,918,836.56
<b>RESERVES</b>				
For equity in H-E.P.C. systems.....	24,327.91	2,956.47	11,893.11	1,101,434.53
For depreciation.....	19,232.66	1,966.07	7,138.30	1,715,819.19
Other reserves.....		432.02		417,919.28
Total reserves.....	43,560.57	5,354.56	19,031.41	3,235,173.00
<b>SURPLUS</b>				
Debentures paid.....	42,268.85	2,750.00	4,955.88	1,408,669.43
Local sinking fund.....				932,697.67
Operating surplus.....	37,074.71	11,949.49	12,318.52	2,367,983.28
Total surplus.....	79,343.56	14,699.49	17,274.40	4,709,350.38
Total liabilities, reserves and surplus	158,019.18	20,604.75	42,187.21	10,863,359.94
Percentage of net debt to total assets	26.3	3.1	19.4	22.5

## “A”—Concluded

## Hydro Municipalities as at December 31, 1934

THUNDER BAY  
SYSTEM

Fort William	Nipigon	Port Arthur	THUNDER BAY SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY
24,709		20,064		
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
48,927.62	215.03	405,816.74	454,959.39	10,262,692.98
123,548.71		240,640.36	364,189.07	22,327,618.75
145,645.14	13,535.66	449,485.59	608,666.39	21,353,725.80
				6,031,767.74
64,145.76	2,578.67	67,234.03	133,958.46	9,635,279.35
62,405.52	2,423.33	91,206.90	156,035.75	8,624,504.78
30,220.06	606.24	77,611.27	108,437.57	2,395,296.48
				1,464,306.73
6,359.31	133.53	49,496.86	55,989.70	3,907,359.92
		323,341.74	323,341.74	2,395,296.48
293,762.46			293,762.46	4,978,079.44
				200,000.00
775,014.58	19,492.46	1,704,833.49	2,499,340.53	91,675,564.93
5,371.37	2,203.86	149,843.65	157,418.88	2,215,914.31
57,200.00		620,494.69	677,694.69	2,382,446.41
29,835.29	802.82	83,118.02	113,756.13	4,001,596.09
2,301.54		20,619.43	22,920.97	1,110,705.38
72,867.32		193,780.04	266,647.36	9,161,419.77
284,329.89	1,765.75	963,397.68	1,249,493.32	29,274,340.46
		521.71	521.71	289,158.19
1,226,919.99	24,264.89	3,736,608.71	4,987,793.59	140,111,145.54
				80,859.63
1,226,919.99	24,264.89	3,736,608.71	4,987,793.59	140,192,005.17
300,000.00	6,416.84	297,896.64	604,313.48	39,646,989.68
22,946.34		131,318.68	154,265.02	3,149,035.07
16,749.46			16,749.46	143,556.95
11,321.87			11,321.87	3,669,008.56
351,017.67	6,416.84	429,215.32	786,649.83	46,608,590.26
284,329.89	1,765.75	963,397.68	1,249,493.32	29,274,340.46
80,083.25	3,479.00	448,706.38	532,268.63	17,426,809.32
13,580.73		66,766.03	80,346.76	2,056,820.81
377,993.87	5,244.75	1,478,870.09	1,862,108.71	48,757,970.59
367,650.00	3,583.16	344,203.36	715,436.52	20,608,129.73
72,867.32		193,780.04	266,647.36	9,161,419.77
57,391.13	9,020.14	1,290,539.90	1,356,951.17	15,055,894.82
497,908.45	12,603.30	1,828,523.30	2,339,035.05	44,825,444.32
1,226,919.99	24,264.89	3,736,608.71	4,987,793.59	140,192,005.17
32.0	28.5	9.1	15.0	35.9



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig	Alvinston	Amherst- burg
Population.....	1,885	P.V.	468	690	3,128
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	10,376.00	4,961.90	2,672.24	4,049.73	17,738.01
Commercial light service.....	3,961.88	1,233.46	1,451.96	2,314.51	6,431.20
Commercial power service.....	23,219.38	1,266.75	1,019.14	226.77	4,460.76
Municipal power.....	667.19			315.96	
Street lighting.....	1,829.01	767.00	628.00	1,854.00	2,310.08
Merchandise.....	53.29				
Miscellaneous.....	243.93	89.28	367.79	90.00	329.82
Total earnings.....	40,350.68	8,318.39	6,139.13	8,850.97	31,269.87
EXPENSES					
Power purchased.....	32,133.90	5,463.45	4,468.57	6,979.55	21,308.34
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,972.45	39.79	100.95	20.10	2,122.11
Line transformer maintenance.....	81.95				342.79
Meter maintenance.....	71.76		6.56	116.55	53.05
Consumers' premises expenses.....	4.36	10.20			229.03
Street lighting, operation and main- tenance.....	358.31	111.65	51.40	81.35	560.95
Promotion of business.....					
Billing and collecting.....	703.87		214.40	248.24	2,084.89
General office, salaries and expenses.....	466.09	309.10	87.33	205.22	1,109.32
Undistributed expenses.....	125.83		38.50	29.48	115.55
Truck operation and maintenance.....	124.31				230.18
Interest.....		223.19	7.89	682.01	1,388.60
Sinking fund and principal payments on debentures.....		603.27		1,106.03	1,376.74
Depreciation.....	1,368.00	371.00	460.00	619.00	1,898.00
Other reserves.....					
Total operating costs and fixed charges.....	37,410.83	7,131.65	5,435.60	10,087.53	32,819.55
Net surplus.....	2,939.85	1,186.74	703.53		
Net loss.....				1,236.56	1,549.68
NUMBER OF CONSUMERS					
Domestic service.....	486	142	130	153	585
Commercial light service.....	87	28	37	51	122
Power service.....	16	3	2	2	14
Total.....	589	173	169	206	721

"B"

## Hydro Municipalities for Year Ended December 31, 1934

Ancaster Twp.	Arkona 397	Aylmer 1,987	Ayr 773	Baden P.V.	Beachville P.V.	Belle River 719	Blenheim 1,702
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,791.70	2,709.77	10,695.03	5,170.53	3,866.23	2,814.26	3,389.23	8,807.18
1,659.64	1,689.52	7,216.59	1,769.35	1,458.83	667.67	1,424.16	6,390.37
506.53	193.84	2,622.57	198.39	5,429.78	9,144.46	349.52	2,951.00
309.33		845.40				1,112.89	1,527.07
1,053.76	960.00	2,343.00	1,027.99	650.00	517.00	760.00	2,511.00
		978.20	18.06	98.90	240.53	190.81	126.36
12,320.96	5,553.13	24,700.79	8,184.32	11,503.74	13,383.92	7,226.61	22,312.98
7,217.85	3,878.43	15,670.36	5,830.46	8,377.99	12,357.30	4,660.89	13,418.04
946.22	125.59	1,945.06	596.25	104.95	10.80	324.42	907.89
30.10		27.95	279.45	31.52		3.09	239.14
276.60	14.45	138.72	139.26	220.53	28.46	184.11	884.19
							42.06
180.12	62.00	310.58	100.78	253.50	78.74	191.79	554.34
	179.70	627.67	334.99	565.77	261.76	245.75	800.03
1,512.35	66.10	1,013.14	63.15	14.39	181.56	263.24	1,408.57
	33.82	103.55	45.90	40.30	16.83	36.13	66.09
524.36	600.05	1,156.61	350.46	109.88	123.33	332.44	513.79
308.56	594.19	1,351.44	367.09	220.15	234.46	413.81	505.45
886.00	330.00	1,393.00	557.00	383.00	613.00	683.00	1,378.00
		110.00					
11,882.16	5,884.33	23,848.08	8,664.79	10,321.98	13,906.24	7,338.67	20,717.59
438.80		852.71		1,181.76			1,595.39
	331.20		480.47		522.32	112.06	
271	98	644	205	136	133	198	496
37	37	137	45	34	20	43	125
5	2	9	3	3	4	4	10
313	137	790	253	173	157	245	631

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

**NIAGARA  
SYSTEM—Continued**

Municipality.....	Blyth	Bolton	Bothwell	Brampton	Brantford
Population.....	626	553	685	5,550	30,611
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,857.20	3,588.00	2,875.02	37,832.02	187,064.16
Commercial light service.....	1,727.93	917.08	1,268.56	16,684.67	64,402.72
Commercial power service.....	997.85	1,975.02	594.73	15,653.24	188,213.43
Municipal power.....			145.43	2,575.94	25,835.17
Street lighting.....	1,300.00	1,113.96	1,293.00	5,453.16	33,080.33
Merchandise.....				103.15	
Miscellaneous.....	11.92		602.20	1,227.61	7,031.11
Total earnings.....	7,894.90	7,594.06	6,778.94	79,529.79	†505,626.92
EXPENSES					
Power purchased.....	4,659.25	5,246.93	4,561.66	61,467.03	340,712.51
Substation operation.....				117.42	5,593.23
Substation maintenance.....					2,073.31
Distribution system, operation and maintenance.....	164.84	254.65	116.92	2,917.04	13,456.58
Line transformer maintenance.....				431.56	1,446.76
Meter maintenance.....	62.79		8.06	390.37	4,619.67
Consumers' premises expenses.....					1,069.35
Street lighting, operation and maintenance.....	142.40	158.70	201.84	590.12	5,002.91
Promotion of business.....					
Billing and collecting.....	219.91		214.61	1,399.31	10,242.40
General office, salaries and expenses.....	22.78	426.40	103.28	1,463.37	8,270.05
Undistributed expenses.....	71.20		35.27	168.08	5,610.79
Truck operation and maintenance.....				367.05	2,137.40
Interest.....	490.93	290.03	187.74	651.06	22,732.87
Sinking fund and principal payments on debentures.....	1,040.13	563.91	180.52	1,904.80	50,540.27
Depreciation.....	450.00	561.00	554.00	4,476.00	22,754.00
Other reserves.....				148.38	4,000.00
Total operating costs and fixed charges.....	7,324.23	7,501.62	6,163.90	76,491.59	†500,262.10
Net surplus.....	570.67	92.44	615.04	3,038.20	5,364.82
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	162	163	171	1,386	7,478
Commercial light service.....	49	42	48	237	1,123
Power service.....	4	9	5	49	226
Total.....	215	214	224	1,672	8,827

†Includes earnings and expenses from other plants.



## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Brantford Twp.	Bridgeport P.V.	Brigden P.V.	Brussels 766	Burford P.V.	Burgess- ville P.V.	Caledonia 1,475	Campbell- ville P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
19,641.05	3,902.06	2,203.67	5,221.99	4,060.91	1,146.69	5,350.11	1,328.82
3,614.82	1,126.54	1,695.15	2,661.82	964.07	532.21	3,877.30	450.70
3,036.90	463.96	1,283.50	681.37	1,331.08		2,009.76	
4,065.42	588.50	745.00	1,284.00	670.00	312.00	1,544.96	474.00
585.45		170.56	115.79	247.47		329.75	
30,943.64	6,081.06	6,097.88	9,964.97	7,273.53	1,990.90	13,111.88	2,253.52
17,888.57	3,671.27	4,673.63	5,900.79	4,501.79	1,837.60	8,051.78	1,627.46
1,431.33	50.93	600.29	309.69	82.03	82.64	895.72	7.57
172.89				49.82	11.32	40.76	
535.42	60.00	124.77	65.08	292.12	96.09	210.40	
10.78							
979.68	85.72	56.89	148.05	78.45	23.00	185.91	24.48
1,728.71	269.39	206.60		429.00	125.68	524.20	
1,631.72	78.01	265.97	436.77	114.59	39.40	163.12	115.57
54.39	36.00	39.84	34.60	22.00	21.50	40.15	
1,235.05	596.85	49.66	728.51	19.10	41.81	26.28	160.28
3,545.24	607.92	285.05	1,028.77	382.11	269.45	254.90	272.63
2,447.00	524.00	358.00	588.00	482.00	211.00	792.00	118.00
31,660.78	5,980.09	6,660.70	9,240.26	6,453.01	2,759.49	11,185.22	2,325.99
	100.97		724.71	820.52		1,926.66	
717.14		562.82			768.59		72.47
801	119	104	214	173	50	337	45
46	19	43	66	33	16	88	9
5	5	5	2	4		6	
852	143	152	282	210	66	431	54

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

**NIAGARA  
SYSTEM—Continued**

Municipality.....	Cayuga	Chatham	Chippawa	Clifford	Clinton
Population.....	693	16,140	1,051	440	1,848
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,428.46	82,155.22	7,216.68	2,437.55	11,791.74
Commercial light service.....	2,869.64	68,862.83	1,199.38	1,527.35	5,966.63
Commercial power service.....	1,331.20	48,944.37	251.08	128.59	4,583.94
Municipal power.....		6,000.28	872.21		971.56
Street lighting.....	1,440.00	19,095.53	1,161.00	868.00	1,988.53
Merchandise.....		449.03			177.89
Miscellaneous.....	115.82	3,354.06		4.72	1,043.99
Total earnings.....	9,185.12	228,861.32	10,700.35	4,966.21	26,524.28
EXPENSES					
Power purchased.....	5,166.51	126,130.59	5,851.54	3,153.88	16,448.87
Substation operation.....		6,642.94			238.83
Substation maintenance.....		2,318.30			
Distribution system, operation and maintenance.....	531.70	2,497.04	1,053.96	30.41	584.05
Line transformer maintenance.....	173.74	664.46			8.30
Meter maintenance.....	20.65	5,566.09	262.36		142.20
Consumers' premises expenses.....		536.75			
Street lighting, operation and maintenance.....	207.30	4,813.69	362.74	62.68	151.22
Promotion of business.....		1,053.00			
Billing and collecting.....	630.17	10,787.99	448.13	280.88	828.80
General office, salaries and expenses.....	278.81	13,153.38	566.65	60.28	2,182.70
Undistributed expenses.....	23.78	3,140.54	75.61	29.00	407.82
Truck operation and maintenance.....		2,489.57			200.81
Interest.....	760.11	13,774.14	411.98	381.86	2,277.21
Sinking fund and principal payments on debentures.....	928.69	15,236.87	796.15	178.82	1,305.66
Depreciation.....	542.00	15,760.00	907.00	297.00	1,940.00
Other reserves.....		3,168.51			
Total operating costs and fixed charges.....	9,263.46	227,733.86	10,736.12	4,474.81	26,716.47
Net surplus.....		1,127.46		491.40	
Net loss.....	78.34		35.77		192.19
NUMBER OF CONSUMERS					
Domestic service.....	124	3,758	319	101	511
Commercial light service.....	56	719	34	38	128
Power service.....	4	109	5	1	14
Total.....	184	4,586	358	140	653

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Comber	Cottam	Courtright	Dashwood	Delaware	Dorchester	Drayton	Dresden
P.V.	P.V.	338	P.V.	P.V.	P.V.	559	1,469
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,175.65	2,501.42	1,620.01	1,422.82	1,360.24	2,305.63	3,136.66	6,355.74
2,307.06	1,198.59	924.35	876.92	565.31	842.29	1,957.82	5,186.24
3,329.62	324.85	63.39			533.43	999.34	4,300.13
		787.66					727.92
471.00	465.00	774.00	451.00	264.00	612.47	750.00	1,862.24
81.38	2.16	50.60	106.41	167.22	150.34	181.99	19.81
							257.46
8,364.71	4,492.02	4,220.01	2,857.15	2,356.77	4,444.16	7,025.81	18,709.54
6,468.56	2,649.76	2,616.79	2,013.34	1,612.19	3,516.22	4,964.00	11,449.09
291.91	50.91	85.93	20.93	69.81	133.77	192.66	1,730.66
	60.08				7.35		
52.57	32.51		1.95		109.43		343.68
81.68	59.25	68.89	38.61	40.40	119.97	103.54	370.75
271.56		95.80	162.11	135.06	130.95		495.78
508.00	426.43	64.04	8.48	110.50	19.53	236.66	826.99
26.50		40.25	29.88		23.25	30.00	45.57
95.63	385.43	243.37	119.92	108.05	131.34	395.68	36.27
497.55	375.49	629.06	117.80	152.16	155.73	305.26	726.04
452.00	356.00	225.00	212.00	150.00	353.00	537.00	867.00
8,745.96	4,395.86	4,069.13	2,725.02	2,378.17	4,700.54	6,764.80	16,891.83
	96.16	150.88	132.13			261.01	1,817.71
381.25				21.40	256.38		
95	103	62	66	52	126	153	361
49	25	23	26	18	29	64	113
3	1	2			2	4	10
147	129	87	92	70	157	221	484



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Drumbo	Dublin	Dundas	Dunnville	Dutton
Population.....	P.V.	P.V.	5,032	3,632	798
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,072.51	1,321.41	20,932.77	13,511.52	3,363.41
Commercial light service.....	930.26	855.49	10,574.92	11,300.63	2,435.84
Commercial power service.....	592.25	405.34	18,822.09	12,243.69	3,395.33
Municipal power.....			658.97	2,367.63	
Street lighting.....	507.00	750.00	5,487.00	3,945.56	1,010.94
Merchandise.....					
Miscellaneous.....	70.04		195.67	451.41	302.58
Total earnings.....	4,172.06	3,332.24	56,671.42	43,820.44	10,508.10
EXPENSES					
Power purchased.....	2,519.92	2,257.84	37,112.42	23,893.04	7,399.82
Substation operation.....			247.35	135.26	
Substation maintenance.....					
Distribution system, operation and maintenance.....	127.28	65.74	5,965.92	1,802.63	399.84
Line transformer maintenance.....			54.48	19.80	
Meter maintenance.....	104.38	4.25	985.46	369.12	132.70
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	105.66	60.42	667.57	420.16	305.77
Promotion of business.....					
Billing and collecting.....	184.80	128.83	1,211.56	863.62	315.50
General office, salaries and expenses.....	97.25	65.66	1,507.52	1,199.11	166.09
Undistributed expenses.....	11.25	25.25	539.76	84.77	26.23
Truck operation and maintenance.....			571.13	121.57	
Interest.....	121.58	110.36	1,419.01	2,762.85	289.26
Sinking fund and principal payments on debentures.....	171.15	467.46	2,193.09	2,631.86	361.04
Depreciation.....	282.00	282.00	4,045.00	3,194.00	556.00
Other reserves.....					
Total operating costs and fixed charges.....	3,725.27	3,467.81	56,520.27	37,497.79	9,952.25
Net surplus.....	446.79		151.15	6,322.65	555.85
Net loss.....		135.57			
NUMBER OF CONSUMERS					
Domestic service.....	82	41	1,204	800	207
Commercial light service.....	26	24	199	200	71
Power service.....	1	2	39	32	7
Total.....	109	67	1,442	1,032	285

## “B”—Continued

## Hydro Municipalities for Year Ended December 31, 1934

East Windsor 14,009	East York Twp.	Elmira 2,672	Elora 1,152	Embro 436	Erieau 273	Erie Beach 22	Essex 1,786
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
77,289.70	176,947.44	15,591.71	7,206.38	2,742.64	3,960.98	1,583.84	7,364.59
16,524.78	24,651.03	5,978.35	3,536.74	1,616.16	1,219.60	297.50	4,299.43
38,214.17	26,894.07	4,162.04	2,832.25	1,218.33	944.65		4,403.76
	5,374.94	873.43					1,585.84
8,419.92	19,553.92	1,834.00	1,674.00	676.00	369.00		3,046.99
			73.55				
	666.56	552.79	426.98	92.67	4.44	2.37	362.27
140,448.57	254,087.96	28,992.32	15,749.90	6,345.80	6,498.67	1,883.71	21,062.88
80,660.81	163,046.87	21,833.33	10,089.07	3,962.34	3,855.16	1,005.25	12,280.72
7,198.30	7,796.25	1,321.89	2,155.40	98.43	104.97	128.91	159.17
260.04	945.36	149.55	34.23	2.50	5.72		
2,683.01	4,694.00	161.54	122.05	29.35	53.28		70.44
3,819.33	1,332.16	2.29					3.60
3,053.66	2,491.09	129.62	113.70	218.68	67.49		308.12
2,007.76	99.31						
8,939.20	10,361.96	682.27	735.73	397.45	310.29	129.56	735.56
4,726.75	11,763.02	976.44	423.15	167.01	157.79	10.34	1,607.61
3,124.34	2,001.31	103.36	246.43	15.00	15.00	7.50	44.23
3,164.53	2,774.58	215.92	92.46				277.52
3,735.32	15,568.81	1,434.59	209.59	196.78	279.21	152.84	1,046.68
7,058.16	14,925.09	1,661.06	769.72	460.96	344.46	134.86	502.92
8,046.00	13,065.00	2,042.00	1,111.00	491.00	342.00	80.00	1,718.00
	404.32						
138,477.21	251,269.13	30,713.86	16,102.53	6,039.50	5,535.37	1,649.26	18,754.57
1,971.36	2,818.83			306.30	963.30	234.45	2,308.31
		1,721.54	352.63				
2,981	9,170	509	309	101	162	68	431
272	405	114	76	47	11	3	114
30	44	22	2	1	4		17
3,283	9,619	645	387	149	177	71	562

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Etobicoke Twp.	Exeter	Fergus	Fonthill	Forest
Population.....		1,606	2,560	872	1,487
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	104,459.43	11,436.89	15,798.86	4,992.13	10,818.08
Commercial light service.....	15,829.23	5,098.61	6,554.98	1,016.41	5,342.83
Commercial power service.....	14,235.44	3,781.60	10,750.26	317.32	4,031.11
Municipal power.....	4,281.47	544.56	904.20	242.30	967.12
Street lighting.....	13,443.87	1,995.25	2,714.31	1,065.00	2,321.00
Merchandise.....		32.64	15.52		
Miscellaneous.....	1,055.33	614.35	15.15		660.86
Total earnings.....	153,304.77	23,503.90	36,753.28	7,633.16	24,141.00
EXPENSES					
Power purchased.....	98,502.29	15,926.15	27,074.27	3,785.47	14,758.28
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	9,097.30	570.50	1,185.88	356.97	1,625.23
Line transformer maintenance.....	788.58	9.94	79.59		128.77
Meter maintenance.....	563.37	279.58	255.18	29.65	249.84
Consumers' premises expenses.....	104.80			5.88	
Street lighting, operation and main- tenance.....	1,072.47	276.26	378.24	161.30	253.10
Promotion of business.....					34.71
Billing and collecting.....	4,780.17	746.78	752.53	599.10	550.08
General office, salaries and expenses..	4,537.81	679.20	729.38	84.12	1,594.04
Undistributed expenses.....	1,786.48	85.02	143.03	15.00	162.10
Truck operation and maintenance....	893.75	35.45	291.13		135.02
Interest.....	11,599.53	415.91	993.24	986.55	592.82
Sinking fund and principal payments on debentures.....	12,166.19	1,008.49	1,097.23	1,075.98	1,109.66
Depreciation.....	10,883.00	1,368.00	1,583.00	486.00	1,406.00
Other reserves.....	150.00				
Total operating costs and fixed charges.....	156,925.74	21,401.28	34,562.70	7,586.02	22,599.65
Net surplus.....		2,102.62	2,190.58	47.14	1,541.35
Net loss.....	3,620.97				
NUMBER OF CONSUMERS					
Domestic service.....	3,327	442	625	214	461
Commercial light service.....	205	110	120	32	126
Power service.....	24	8	15	4	22
Total.....	3,556	560	760	250	609



## “B”—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Galt 14,057	George- town 2,224	Glencoe 827	Goderich 4,394	Granton P.V.	Guelph 21,048	Hagers- ville 1,355	Hamilton 153,504
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
94,350.55	14,474.82	5,488.93	30,584.44	1,924.52	110,143.65	5,010.61	928,800.72
41,016.94	6,225.70	3,310.81	13,451.34	1,066.06	50,712.24	4,620.29	361,025.55
81,695.12	21,902.11	1,681.16	12,291.97	709.56	103,309.34	12,439.59	1,617,692.20
4,512.62	683.27	1,370.16	3,508.99		14,253.12		57,500.35
20,594.00	2,146.00	1,945.64	3,791.50	370.00	18,549.86	1,732.00	123,817.93
	11.84		206.05		367.56		
2,858.73	886.85	64.24	42.39	174.74	447.70	821.77	45,098.10
245,027.96	46,330.09	13,860.94	63,876.68	4,244.88	297,783.47	24,624.26	3,133,934.85
156,137.39	35,607.21	9,060.79	41,498.88	3,308.09	218,637.85	18,861.65	2,166,877.85
4,364.05			1,905.12				57,901.60
237.46					3,542.04		5,910.91
3,046.61	1,085.29	171.45	1,703.98	17.95	10,921.32	2,014.22	29,247.52
271.32	46.67		18.42		720.43	41.72	4,175.52
2,136.79	224.65	110.83	841.77	99.44	3,358.83	377.88	16,926.00
15.10	1.48				256.06		12,694.56
2,448.77	292.72	286.85	567.94	56.75	5,692.00	378.74	12,122.68
1,979.84					158.41		12,267.36
3,846.67	1,574.37	497.30	1,890.29	186.78	6,288.89	728.53	50,918.83
5,334.76	933.80	361.50	1,803.09	72.51	11,224.60	616.14	42,839.38
5,421.50	193.73	35.62	111.27	25.25	1,194.05	54.58	41,781.05
696.18	654.18		214.37		1,297.30	745.29	
14,141.28	678.53	470.81	2,645.71	134.49	2,541.44	217.06	217,988.40
19,039.31	811.33	1,035.43	2,345.32	126.33	1,103.55	392.46	291,666.47
23,422.14	2,065.00	932.00	5,391.00	234.00	12,696.00	1,118.00	129,882.34
1,000.00					500.00		
243,539.17	44,168.96	12,962.58	60,937.16	4,261.59	280,132.77	25,546.27	3,093,200.47
1,488.79	2,161.13	898.36	2,939.52		17,650.70		40,734.38
				16.71		922.01	
3,601	675	218	1,170	81	5,039	334	37,330
488	130	82	235	34	768	108	5,064
116	26	6	20	1	139	16	1,262
4,205	831	306	1,425	116	5,946	458	43,656

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Harriston	Harrow	Hensall	Hespeler	Highgate
Population.....	1,321	928	697	2,798	343
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	7,874.26	7,395.41	4,173.05	16,998.75	1,837.56
Commercial light service.....	4,836.50	3,510.64	1,717.39	5,274.25	960.87
Commercial power service.....	5,220.06	3,778.91	2,588.29	34,392.00	1,063.93
Municipal power.....	482.42		34.22	1,163.03	39.60
Street lighting.....	1,479.00	1,288.63	996.00	2,965.00	570.00
Merchandise.....					
Miscellaneous.....		38.66	238.57	656.83	165.44
Total earnings.....	19,892.24	16,012.25	9,747.52	61,449.86	4,637.40
EXPENSES					
Power purchased.....	11,922.38	12,246.85	7,218.84	47,701.03	2,982.16
Substation operation.....				279.63	
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,420.95	56.39	377.88	2,449.38	35.56
Line transformer maintenance.....		9.20		184.22	
Meter maintenance.....	132.15	140.11	5.45	316.15	9.55
Consumers' premises expenses.....		49.29		1.25	
Street lighting, operation and maintenance.....	322.39	304.78	130.95	549.24	133.52
Promotion of business.....					
Billing and collecting.....	849.76	566.30	326.64	697.33	324.35
General office, salaries and expenses.....	136.01	415.06	395.50	1,215.43	162.54
Undistributed expenses.....	75.94	23.47	54.38	495.89	25.25
Truck operation and maintenance.....	123.51			433.69	
Interest.....	530.82	499.83	401.21	1,850.79	158.79
Sinking fund and principal payments on debentures.....	759.98	551.13	465.97	1,881.48	174.97
Depreciation.....	995.00	716.00	650.00	2,566.00	347.00
Other reserves.....				150.00	
Total operating costs and fixed charges.....	17,268.89	15,578.41	10,026.82	60,771.51	4,353.69
Net surplus.....	2,623.35	433.84		678.35	283.71
Net loss.....			279.30		
NUMBER OF CONSUMERS					
Domestic service.....	343	257	182	684	95
Commercial light service.....	105	74	47	108	38
Power service.....	13	3	14	27	6
Total.....	461	334	243	819	139

## “B”—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Humber- stone 2,442	Ingersoll 5,104	Jarvis 531	Kingsville 2,354	Kitchener 31,252	Lambeth P.V.	La Salle 600	Leaming- ton 5,004
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,593.12	31,840.75	2,420.67	13,602.27	202,024.06	3,523.95	5,515.53	28,104.71
3,155.55	14,686.28	1,820.01	6,205.86	99,769.21	1,455.73	1,373.41	14,994.60
3,454.42	25,727.06	3,889.08	3,318.35	217,760.24		1,995.15	11,300.24
	2,125.68		1,210.91	22,427.51	569.90		5,937.39
1,367.00	4,851.48	840.00	2,994.46	32,018.76	432.00	495.00	5,691.85
	299.99						
271.71	556.56	46.05	1,180.25	5,767.86	118.00	143.50	857.65
16,841.80	80,087.80	9,015.81	28,512.10	579,767.64	6,099.58	9,522.59	66,886.44
9,477.40	57,507.78	5,900.96	16,014.16	427,218.17	4,386.19	6,474.84	41,390.30
	383.34			8,873.63			
				1,306.66			
666.78	2,496.83	46.73	1,429.23	9,226.73	175.49	214.38	2,423.46
	562.54		250.06	809.61	2.90		61.06
233.85	1,074.16	33.65	553.32	4,862.19	21.11	170.45	676.09
	73.15		39.50	1,847.43			66.51
178.15	310.25	31.83	727.72	7,723.68	24.48	20.50	1,047.22
	17.93			483.69			
	1,376.95	490.53	1,226.96	13,352.60	257.68	353.14	1,788.75
839.69	4,291.47	55.28	1,212.00	15,042.90	5.00	339.47	3,581.40
	473.50	26.50	346.99	5,520.48	15.92	79.00	561.85
96.00	415.81		369.47	2,033.05			601.17
1,128.53	3,504.18	320.90	1,720.94	9,886.90	154.36	679.78	1,989.36
1,300.00	1,677.35	514.37	715.90	15,380.70	136.24	671.58	2,204.53
932.00	3,678.00	403.00	1,907.00	31,334.00	341.00	832.00	3,402.00
14,852.40	77,843.24	7,823.75	26,513.25	554,402.42	5,520.37	9,835.14	59,793.70
1,989.40	2,244.56	1,192.06	1,998.85	25,365.22	579.21		7,092.74
						312.55	
520	1,282	121	704	7,173	110	151	1,342
65	234	44	172	975	25	17	252
5	44	4	12	265	1	4	28
590	1,560	169	888	8,413	136	172	1,622



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Listowel	London	London Twp.	Long Branch	Lucan
Population.....	2,775	73,726		3,550	528
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	17,505.46	518,046.47	11,307.27	24,085.71	4,584.29
Commercial light service.....	8,092.05	192,613.53	2,479.86	5,167.29	1,673.81
Commercial power service.....	10,982.27	325,422.56	1,707.94	1,029.18	394.28
Municipal power.....	1,590.07	55,724.47		1,001.23	
Street lighting.....	3,840.60	54,217.56	832.50	3,682.98	994.00
Merchandise.....		4,565.60			
Miscellaneous.....	1,161.34	35,227.05	410.61	183.17	298.49
Total earnings.....	43,171.79	1,185,817.24	16,738.18	35,149.56	7,944.87
EXPENSES					
Power purchased.....	29,611.83	782,717.61	12,074.89	19,832.28	5,283.90
Substation operation.....	76.10	16,113.19			
Substation maintenance.....		9,613.46			
Distribution system, operation and maintenance.....	2,482.00	21,571.45	453.50	3,613.31	699.04
Line transformer maintenance.....	13.48	3,770.96		218.43	
Meter maintenance.....	310.49	16,588.62	69.26	337.84	86.06
Consumers' premises expenses.....	36.21	4,238.28	24.88	42.74	
Street lighting, operation and main- tenance.....	446.37	9,567.59	122.98	432.75	92.23
Promotion of business.....		14,109.44			
Billing and collecting.....	877.42	27,194.97	622.04	1,673.25	521.50
General office, salaries and expenses..	656.14	39,483.60	595.74	1,906.87	386.33
Undistributed expenses.....	258.17	8,723.11	22.37	730.25	44.55
Truck operation and maintenance....	187.35	4,865.88			
Interest.....	523.50	45,190.18	624.82	1,880.21	217.80
Sinking fund and principal payments on debentures.....	1,820.55	65,807.08	993.50	2,003.66	271.68
Depreciation.....	2,650.00	94,696.52	726.00	2,227.00	649.00
Other reserves.....		12,688.14		50.00	
Total operating costs and fixed charges.....	39,949.61	1,176,940.08	16,329.98	34,948.59	8,252.09
Net surplus.....	3,222.18	8,877.16	408.20	200.97	
Net loss.....					307.22
NUMBER OF CONSUMERS					
Domestic service.....	733	16,632	335	1,135	174
Commercial light service.....	149	2,820	24	100	47
Power service.....	20	477	5	5	6
Total.....	902	19,929	364	1,240	227

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Lynden P.V.	Markham 1,060	Merlin P.V.	Merritton 2,487	Milton 1,804	Milverton 1,002	Mimico 6,696	Mitchell 1,497
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,984.32	6,961.31	2,183.15	11,709.66	11,342.00	5,629.79	56,928.27	10,772.48
734.83	2,760.91	1,512.98	2,175.88	5,422.01	2,931.18	10,048.43	4,305.49
767.42	2,428.18	935.76	74,179.37	10,572.03	2,286.14	3,256.09	3,734.62
	485.82				570.68	7,671.62	950.18
430.00	1,356.00	688.00	3,352.00	2,033.81	999.00	7,002.00	2,088.00
							143.14
5.53	147.81	309.18		1,588.49	79.75	176.06	1,014.68
3,922.10	14,140.03	5,629.07	91,416.91	30,958.34	12,496.54	85,082.47	23,008.59
3,128.15	9,446.31	3,295.35	79,700.75	22,088.40	8,533.51	54,629.96	14,893.50
			322.57	244.77			423.99
174.44	998.27	199.39	2,367.96	2,018.58	289.51	6,946.31	690.84
	62.54	9.20	82.76			178.23	1.50
45.20	116.33	29.41	410.94	100.22	94.56	554.58	212.86
			10.84				
28.63	149.44	100.10	786.61	259.16	115.76	923.02	130.08
				83.06			
128.85		227.54	985.24	795.48	600.48	1,766.33	818.55
55.72	757.30	192.92	1,857.85	1,999.84	235.48	1,726.05	1,595.55
20.00		15.00	222.89	205.57	214.35	273.20	856.17
	293.22		365.87	323.34		548.59	224.67
146.60	70.35	470.54	978.71	778.65	126.59	4,775.70	5.35
162.68	391.94	712.06	1,586.38	738.38	714.35	5,655.59	
278.00	815.00	368.00	2,074.00	1,940.24	700.00	5,511.00	3,155.00
					199.98		
4,168.27	13,100.70	5,619.51	91,753.37	31,575.69	11,824.57	83,488.56	23,008.06
	1,039.33	9.56			671.97	1,593.91	.53
246.17			336.46	617.35			
82	271	106	635	438	228	1,769	460
21	66	43	63	105	72	139	113
1	10	1	10	21	7	17	25
104	347	150	708	564	307	1,925	598

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Moore- field P.V.	Mount Brydges P.V.	Newbury 256	New Hamburg 1,457	New Toronto 7,484
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,159.27	2,755.72	1,197.60	10,256.68	34,857.29
Commercial light service.....	617.87	864.47	793.88	4,049.52	13,017.84
Commercial power service.....	1,069.57	883.68	723.89	4,822.52	106,170.83
Municipal power.....					11,960.28
Street lighting.....	375.00	520.00	720.00	2,202.00	8,697.48
Merchandise.....				194.98	
Miscellaneous.....	49.68	306.72	16.18	157.61	18.05
Total earnings.....	3,271.39	5,330.59	3,451.55	21,683.31	174,721.77
EXPENSES					
Power purchased.....	2,363.74	3,877.45	2,100.51	14,122.97	145,023.44
Substation operation.....				259.20	
Substation maintenance.....					
Distribution system, operation and maintenance.....	23.74	49.52	79.16	437.50	4,367.62
Line transformer maintenance.....		18.40		30.03	389.58
Meter maintenance.....		45.79		489.10	744.84
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	24.93	20.10	50.53	350.88	2,257.51
Promotion of business.....					
Billing and collecting.....		196.74		600.59	2,715.19
General office, salaries and expenses..	129.20	145.79	125.46	749.51	4,487.16
Undistributed expenses.....		28.63	25.25	78.87	1,665.98
Truck operation and maintenance.....				253.38	839.91
Interest.....	83.17	129.24	264.00	339.66	768.39
Sinking fund and principal payments on debentures.....	307.36	161.12	500.00	832.16	319.49
Depreciation.....	192.00	307.00	299.00	1,298.00	5,442.00
Other reserves.....					
Total operating costs and fixed charges.....	3,124.14	4,979.78	3,443.91	19,841.85	169,021.11
Net surplus.....	147.25	350.81	7.64	1,841.46	5,700.66
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	58	140	63	337	1,488
Commercial light service.....	22	32	23	90	176
Power service.....	2	3	2	13	31
Total.....	82	175	88	440	1,695



## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Niagara Falls 18,060	Niagara-on-the-Lake 1,614	North York Twp. 1,196	Norwich 1,196	Oil Springs 462	Otterville P.V. 1,600	Palmerston 1,600	Paris 4,297
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
138,473.29	14,141.76	103,317.07	8,205.54	1,620.31	2,170.36	10,176.68	23,530.97
54,104.91	3,566.41	16,424.74	3,270.25	1,299.15	1,652.03	5,051.24	8,417.47
53,421.00	927.89	27,467.85	1,350.75	7,499.30	9.00	4,611.25	12,072.80
17,913.33	1,822.17	4,930.78	750.60		111.78	2,182.68	1,225.00
28,355.65	2,859.00	3,707.32	2,120.00	750.00	786.00	1,941.57	5,450.50
	461.14		173.09				
	442.87	1,934.59	180.00	486.83	94.16	5.99	1,870.47
292,268.18	24,221.24	157,782.35	16,050.23	11,655.59	4,823.33	23,969.41	52,567.21
183,558.86	12,650.43	88,048.39	11,344.66	7,334.67	3,780.71	15,855.02	31,853.71
9,541.53						68.71	1,679.04
6,307.53	2,239.09	7,606.71	1,195.61	655.09	48.59	683.00	3,176.07
628.68	40.80	393.92	17.49		26.63	41.27	39.05
7,306.42	303.24	641.79	207.68	46.65	129.43	109.60	666.22
320.89		125.49					1.10
3,567.84	691.29	759.66	162.05	30.84	75.56	419.22	689.81
7,662.03	963.39	4,599.14	406.38	422.34	295.97	561.18	1,375.40
9,134.65	1,048.43	2,888.37	450.99	339.01	41.55	716.91	1,366.35
4,132.38	110.84	2,954.07	37.31	75.01	26.25	38.53	220.51
3,249.86	402.94	2,592.71	112.89			128.87	304.32
19,223.83	1,248.09	20,217.36	307.39	296.70	51.54	276.76	572.10
25,848.36	1,002.69	16,798.54	593.60	1,195.88	349.16	917.02	734.83
23,752.00	1,594.00	11,840.00	857.00	717.00	450.00	1,184.00	5,125.00
							137.13
304,234.86	22,295.23	159,466.15	15,693.05	11,113.19	5,275.39	21,000.09	47,940.64
	1,926.01		357.18	542.40		2,969.32	4,626.57
11,966.68		1,683.80			452.06		
4,366	466	2,920	346	74	111	399	1,063
665	79	240	89	29	44	95	180
87	11	38	6	30	2	10	25
5,118	556	3,198	441	133	157	504	1,268

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Parkhill	Petrolia	Plattsville	Point Edward	Port Colborne
Population.....	1,021	2,715	P.V.	1,336	5,417
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,835.48	11,888.16	2,500.67	5,620.87	29,269.73
Commercial light service.....	3,094.20	6,455.77	1,067.27	1,855.65	12,496.18
Commercial power service.....	169.98	22,142.83	651.88	22,513.59	6,821.61
Municipal power.....	583.43				6,889.39
Street lighting.....	1,437.00	2,652.00	408.00	1,593.48	7,740.14
Merchandise.....		97.97			125.37
Miscellaneous.....	3.50	479.18	7.27	701.64	
Total earnings.....	10,123.59	43,715.91	4,635.09	32,285.23	63,342.42
EXPENSES					
Power purchased.....	8,058.37	27,560.07	3,029.86	26,792.98	34,988.37
Substation operation.....					
Substation maintenance.....		11.97			
Distribution system, operation and maintenance.....	177.75	2,828.19	43.94	255.16	1,720.49
Line transformer maintenance.....		278.77		51.70	117.10
Meter maintenance.....	100.75	651.26		96.10	682.66
Consumers' premises expenses.....					52.58
Street lighting, operation and maintenance.....	169.51	212.14	31.60	200.80	1,705.06
Promotion of business.....					60.58
Billing and collecting.....	322.60	506.65	171.09		1,701.41
General office, salaries and expenses.....	128.45	2,021.14	6.58	1,962.79	3,505.76
Undistributed expenses.....	39.56	170.33	30.25	47.48	199.97
Truck operation and maintenance.....		232.73			1,081.51
Interest.....	357.10	1,351.27	141.52	479.68	4,223.41
Sinking fund and principal payments on debentures.....	1,040.20	2,364.68	199.15	1,002.44	7,121.30
Depreciation.....	711.00	2,919.00	274.00	1,071.00	4,438.00
Other reserves.....		400.00			
Total operating costs and fixed charges.....	11,105.29	41,508.20	3,927.99	31,960.13	61,598.20
Net surplus.....		2,207.71	707.10	325.10	1,744.22
Net loss.....	981.70				
NUMBER OF CONSUMERS					
Domestic service.....	240	696	95	299	1,305
Commercial light service.....	79	166	25	46	227
Power service.....	3	57	1	10	21
Total.....	322	919	121	355	1,553

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Port Credit 1,650	Port Dalhousie 1,495	Port Dover 1,692	Port Rowan 692	Port Stanley 742	Preston 6,189	Princeton P.V.	Queenston P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
13,605.90	13,663.90	7,655.78	3,593.62	13,455.53	38,287.60	2,068.19	2,945.67
5,172.31	2,129.27	4,253.13	1,620.70	3,749.74	16,122.95	728.69	912.69
1,619.25	4,869.74	4,745.95	83.71	3,337.02	34,413.07	3,028.37	
1,112.37				822.37	1,075.02		
2,710.00	1,636.25	3,101.00	1,242.00	2,045.63	5,004.09	481.00	304.42
238.57			22.00	328.49	1,556.29	11.22	32.00
24,458.40	22,299.16	19,755.86	6,562.03	23,738.78	96,459.02	6,317.47	4,194.78
18,322.07	15,670.44	10,769.54	3,394.68	14,176.76	63,670.95	4,752.36	2,501.98
					4,370.58		
					61.03		
1,060.85	1,634.77	1,124.44	146.60	1,817.18	2,333.22	3.67	76.22
28.64	40.97	48.08		52.20	672.79	39.86	
288.56	250.45	503.34		167.42	1,410.07	31.22	
					118.93		
399.97	278.03	453.54	23.45	183.59	869.87	75.78	10.00
683.80	723.46	418.60	92.02	686.51	1,669.77	175.01	
355.98	761.97	670.59	110.64	696.03	1,410.61	25.12	346.43
45.00	74.70	55.20	15.00	71.74	769.75	14.00	
	269.70			234.10	401.58		
420.34	649.28	428.73	699.75	370.39	2,527.55	95.92	180.22
561.85	1,167.80	1,217.63	424.18	862.43	5,470.44	135.01	492.77
1,496.00	947.00	1,316.00	345.00	1,273.00	8,400.00	254.00	338.00
					300.00		
23,663.06	22,468.57	17,005.69	5,251.32	20,591.35	94,457.14	5,601.95	3,945.62
795.34		2,750.17	1,310.71	3,147.43	2,001.88	715.52	249.16
	169.41						
398	560	496	101	606	1,561	76	70
75	48	128	31	97	241	20	11
6	13	11	1	9	48	3	
479	621	635	133	712	1,850	99	81



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

**NIAGARA  
SYSTEM—Continued**

Municipality.....	Richmond Hill	Ridgetown	Riverside	Rockwood	Rodney
Population.....	1,299	1,914	4,975	P.V.	748
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	7,453.62	9,251.64	37,310.96	3,114.32	3,394.73
Commercial light service.....	3,772.41	4,947.97	4,128.74	1,017.28	2,251.08
Commercial power service.....	2,094.54	3,135.34	7,812.02	236.51	1,980.35
Municipal power.....	421.50	873.69	1,657.10		
Street lighting.....	1,389.00	3,122.50	2,499.96	765.00	982.02
Merchandise.....					
Miscellaneous.....	165.20	704.84	261.43	46.23	150.00
Total earnings.....	15,296.27	22,035.98	53,670.21	5,179.34	8,758.18
EXPENSES					
Power purchased.....	10,134.08	15,102.87	34,813.01	3,512.96	6,174.84
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,382.67	1,069.55	564.48	102.41	381.62
Line transformer maintenance.....		258.28	70.29		
Meter maintenance.....		403.28	727.07	59.61	169.66
Consumers' premises expenses.....		110.32	1,673.28		
Street lighting, operation and main- tenance.....	232.86	448.32	704.22	90.67	118.40
Promotion of business.....	5.60	5.92	692.92	35.80	
Billing and collecting.....	875.18	800.50	3,560.25		369.76
General office, salaries and expenses.....	395.72	1,040.23	1,756.21	499.60	408.17
Undistributed expenses.....	31.29	77.12	949.25		24.67
Truck operation and maintenance.....		186.43	717.88		
Interest.....	221.09	410.51	3,448.56	117.25	303.67
Sinking fund and principal payments on debentures.....	713.67	379.12	3,986.52	83.36	291.57
Depreciation.....	560.00	1,343.00	3,999.00	436.00	429.00
Other reserves.....					
Total operating costs and fixed charges.....	14,552.16	21,635.45	57,662.94	4,937.66	8,671.36
Net surplus.....	744.11	400.53		241.68	86.82
Net loss.....			3,992.73		
NUMBER OF CONSUMERS					
Domestic service.....	329	558	1,088	148	202
Commercial light service.....	65	147	50	35	74
Power service.....	17	19	8	2	7
Total.....	411	724	1,146	185	283

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1934

St. Catharines	St. Clair Beach	St. George	St. Jacobs	St. Marys	St. Thomas	Sandwich
26,161	81	P.V.	P.V.	4,023	16,072	10,559
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
143,939.49	1,848.63	2,949.80	3,942.31	29,587.34	115,912.65	87,689.76
49,059.69	1,425.73	1,099.16	1,227.43	10,308.31	48,724.75	15,952.72
98,942.44	262.14	2,059.66	1,145.51	14,790.94	48,413.74	13,311.52
20,561.66		370.50	460.00	2,907.23	5,920.76	8,458.14
3,285.29		75.04	147.83	4,660.16	14,656.97	194.09
315,788.57	3,536.50	6,554.16	6,923.08		3,535.18	661.78
205,037.29	2,297.59	5,453.52	5,276.70	45,729.02	169,390.10	87,384.71
4,223.33				1,235.12	7,373.61	
				150.15	753.99	75.15
12,686.64	112.93	4.14	35.93	1,439.71	9,607.52	2,708.83
2,115.76	1.95			19.90	470.75	594.38
4,792.07	51.95	10.13	17.10	739.72	2,413.33	1,384.49
2,253.60	52.95			5.66	2,365.61	671.07
4,161.57		100.53	51.25	667.67	2,316.09	1,529.38
19.91	10.19			35.92	97.32	
10,513.61	165.75	541.24	261.00	1,330.87	5,333.37	5,840.95
10,007.50	26.09	56.16	82.45	1,133.09	9,836.07	6,295.47
4,294.85	88.68	25.75	15.00	704.28	5,809.30	942.21
2,244.05	56.00			388.34	1,016.24	1,101.11
10,209.98	281.76	184.93	107.95	2,278.11	1,934.66	5,856.00
13,315.40	357.09	227.90	405.32	2,257.08	3,236.79	6,824.73
17,413.00	332.00	312.00	352.00	4,371.00	13,082.00	5,931.00
303,288.56	3,834.93	6,916.30	6,604.70	62,485.64	235,036.75	127,139.48
12,500.01			318.38		2,127.30	
	298.43	362.14		231.66		871.47
6,414	39	132	113	1,034	4,060	2,457
716	5	37	28	183	639	202
153	1	3	6	32	76	27
7,283	45	172	147	1,249	4,775	2,686

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Sarnia	Scarboro' Twp.	Seaforth	Simcoe	Springfield
Population.....	17,620		1,697	5,174	372
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	108,430.08	95,233.61	10,688.44	21,450.54	1,775.06
Commercial light service.....	46,211.30	20,281.81	5,223.45	23,848.73	734.68
Commercial power service.....	167,019.50	10,086.88	4,081.29	24,251.23	1,262.21
Municipal power.....	5,366.17	12,120.75	789.47	1,927.97	
Street lighting.....	18,623.73	14,346.96	1,788.00	4,514.83	552.75
Merchandise.....	552.89				
Miscellaneous.....	8,311.79	1,205.50	4.50	906.26	233.55
Total earnings.....	354,515.46	153,275.51	22,575.15	76,899.56	4,558.25
EXPENSES					
Power purchased.....	237,602.84	85,070.69	15,156.79	45,038.42	3,273.04
Substation operation.....	8,450.59		150.85	558.72	
Substation maintenance.....	82.43	38.78			
Distribution system, operation and maintenance.....	7,291.89	5,770.68	2,183.33	3,515.87	37.48
Line transformer maintenance.....	552.56	704.96	40.51	122.37	
Meter maintenance.....	3,253.76	971.02	210.71	1,198.06	4.80
Consumers' premises expenses.....	638.33	105.91		43.15	
Street lighting, operation and main- tenance.....	5,384.73	1,994.21	239.77	788.63	77.15
Promotion of business.....	1,638.65		472.70		
Billing and collecting.....	8,167.40	6,518.87	773.46	1,692.50	233.35
General office, salaries and expenses.....	11,529.97	5,699.23	393.52	2,423.26	200.28
Undistributed expenses.....	5,990.64	2,106.50	106.71	452.46	11.25
Truck operation and maintenance.....	2,668.31	1,782.72	230.60	521.75	
Interest.....	7,528.16	10,794.35	7.47	2,508.48	200.70
Sinking fund and principal payments on debentures.....	21,624.84	14,169.75		3,103.66	177.94
Depreciation.....	18,129.00	11,240.00	1,830.00	3,460.00	350.00
Other reserves.....					
Total operating costs and fixed charges.....	340,534.10	146,967.67	21,796.42	65,427.33	4,565.99
Net surplus.....	13,981.36	6,307.84	778.73	11,472.23	
Net loss.....					7.74
NUMBER OF CONSUMERS					
Domestic service.....	4,507	4,483	474	1,207	97
Commercial light service.....	615	361	117	314	30
Power service.....	84	36	14	38	4
Total.....	5,206	4,880	605	1,559	131



## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Stamford Twp.	Stouffville 1,174	Stratford 18,673	Strathroy 2,887	Sutton 806	Tavistock 1,050	Tecumseh 2,423	Thames- ford P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
54,149.44	7,017.62	148,616.88	20,711.72	7,298.86	6,973.88	13,661.18	2,495.30
6,926.87	2,824.27	53,007.40	9,857.75	2,878.02	2,078.20	3,418.64	1,401.50
7,097.21	860.47	52,668.20	9,642.88	1,004.28	9,260.41	1,492.87	3,548.72
1,891.39		10,762.45	1,664.95		479.80		
7,656.75	1,638.00	16,458.81	4,050.96	1,886.50	1,225.66	960.00	517.00
326.61		137.73					
612.11	330.22	7,136.31	1,200.17	120.74	493.32		387.19
78,660.38	12,670.58	288,787.78	47,128.43	13,188.40	20,511.27	19,532.69	8,349.71
37,726.89	8,421.96	191,045.49	29,573.77	9,022.84	16,648.72	9,660.87	6,332.50
618.14		4,767.58	288.10				
		1,422.47	108.53				
4,205.02	819.10	5,328.04	1,111.62	575.20	441.22	543.11	198.22
16.00		291.50	548.23		17.15	64.63	
1,095.60		2,205.45	609.13		201.19	466.01	170.98
300.31		439.58	57.00			379.11	2.50
1,500.34	164.56	2,816.83	498.05	198.88	101.79	254.92	49.74
571.44			163.83			177.42	
3,149.67		5,251.34	870.81		619.96	1,649.70	123.40
4,079.10	377.23	2,951.70	1,778.25	601.75	159.49	383.53	150.53
1,288.44		7,234.08	430.90		65.64	420.80	29.00
1,574.12		1,033.23	294.71			442.33	
9,271.46	364.56	21,775.00	1,800.54	896.03	183.33	1,188.18	85.03
11,133.25	1,596.02	9,239.60	1,524.44	1,420.67	206.98	1,404.37	218.89
5,983.00	531.00	20,357.00	3,266.00	876.00	800.00	1,515.00	445.00
		1,700.00					
82,512.78	12,274.43	277,858.89	42,923.91	13,591.37	19,445.47	18,549.98	7,805.79
	396.15	10,928.89	4,204.52		1,065.80	982.71	543.92
3,852.40				402.97			
1,668	339	4,298	809	399	256	504	124
93	86	618	171	79	72	50	41
13	5	131	27	4	7	3	7
1,774	430	5,047	1,007	482	335	557	172

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Thames- ville 763	Thedford 572	Thorn- dale P.V.	Thorold 4,945	Tilbury 1,897
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,938.61	3,032.53	1,391.02	18,646.70	6,979.95
Commercial light service.....	2,596.58	1,978.94	909.59	6,594.17	7,364.40
Commercial power service.....	1,859.09	1,401.97	252.97	30,285.73	6,989.06
Municipal power.....	241.65			4,022.88	225.00
Street lighting.....	1,193.52	1,035.00	384.00	3,663.50	1,591.20
Merchandise.....					
Miscellaneous.....	349.82	63.94	10.97	378.93	550.33
Total earnings.....	10,179.27	7,512.38	2,948.55	63,591.91	23,699.94
EXPENSES					
Power purchased.....	6,177.66	4,855.61	2,622.75	45,683.43	16,038.73
Substation operation.....				2,281.61	
Substation maintenance.....					
Distribution system, operation and maintenance.....	609.46	100.89	80.77	2,389.30	1,731.01
Line transformer maintenance.....					31.82
Meter maintenance.....	99.79	12.80		285.03	147.84
Consumers' premises expenses.....				15.61	
Street lighting, operation and main- tenance.....	245.55	86.09	41.99	664.59	469.75
Promotion of business.....					
Billing and collecting.....	243.36	219.62	61.57	1,244.94	726.60
General office, salaries and expenses..	272.28	81.80	27.65	1,030.05	960.65
Undistributed expenses.....	48.66	18.25	11.25	204.88	193.42
Truck operation and maintenance.....				331.54	146.49
Interest.....	242.85	540.74	71.21		403.53
Sinking fund and principal payments on debentures.....	587.10	902.57	91.42		675.51
Depreciation.....	766.00	395.00	240.00	2,784.00	1,163.00
Other reserves.....					
Total operating costs and fixed charges.....	9,292.71	7,213.37	3,248.61	56,914.98	22,688.35
Net surplus.....	886.56	299.01		6,676.93	1,011.59
Net loss.....			300.06		
NUMBER OF CONSUMERS					
Domestic service.....	217	131	60	1,166	423
Commercial light service.....	70	39	23	191	134
Power service.....	7	3	1	17	14
Total.....	294	173	84	1,374	571

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Tillson- burg 3,380	Toronto 626,674	Toronto Twp.	Trafalgar Twp. Area No. 1	Trafalgar Twp. Area No. 2	Walkerville 10,458	Wallaceburg 4,457
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
15,509.18	3,940,857.77	60,681.43	13,991.77	5,818.71	105,974.52	19,094.33
12,131.26	2,983,712.69	13,976.92	663.51		29,693.55	10,407.36
10,918.66	3,358,716.36	8,086.71	533.41		144,910.10	50,644.31
755.81	1,328,189.65					1,875.71
4,379.28	533,936.40	4,975.20			11,640.96	4,168.00
355.57					3,880.41	
475.99	283,200.25	1,265.31	320.30	105.00	2,492.70	1,629.79
44,525.75	12,428,613.12	88,985.57	15,508.99	5,923.71	298,592.24	87,819.50
28,202.87	6,676,750.66	51,638.63	7,534.40	2,593.00	218,495.39	61,579.66
1,016.79	205,890.03				5,532.69	252.00
	253,206.29				1,271.25	
3,000.21	329,903.74	4,187.97	2,080.28	438.49	4,924.34	1,940.98
47.38	35,491.89	185.42			188.53	31.99
465.27	96,805.75	348.15	5.35	47.70	2,898.76	811.00
	276,060.59				5,857.53	
980.17	116,045.39	956.75			2,468.14	734.60
	149,169.54				3,404.34	1,008.29
1,000.46	341,725.75	3,079.20			5,266.79	2,184.18
3,551.69	357,025.76	4,488.71	1,397.61	524.77	9,610.64	2,537.79
162.18	*132,064.49	429.70	109.09	38.86	6,083.04	1,353.89
592.52		1,906.29	254.39		2,179.88	981.32
461.76	1,328,484.07	3,511.04	693.82	520.96	6,692.07	2,592.63
1,079.24	1,287,878.00	5,437.99	979.77		16,105.89	2,905.92
3,264.00	850,392.62	8,810.00	1,174.00	325.00	16,943.00	4,807.00
38.66						
43,863.20	12,436,894.57	84,979.85	14,228.71	4,488.78	307,922.28	83,771.25
662.55		4,005.72	1,280.28	1,434.93		4,048.25
	8,281.45				9,330.04	
905	154,321	1,969	266	148	2,522	1,040
239	25,281	183	2		314	234
31	5,144	23	9		87	29
1,175	184,746	2,175	277	148	2,923	1,303

\*Includes \$25,817.88 provision for York township profit.



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Wards- ville 240	Water- down 919	Waterford 1,213	Waterloo 8,714	Watford 941
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,105.32	5,682.98	6,537.53	61,882.58	6,272.18
Commercial light service.....	1,181.89	1,774.40	1,625.85	21,335.54	3,341.42
Commercial power service.....		2,003.95	4,309.62	25,210.32	2,304.08
Municipal power.....			309.96	3,571.79	401.89
Street lighting.....	720.00	932.00	1,514.00	7,514.42	1,344.96
Merchandise.....				402.26	144.10
Miscellaneous.....	1.04	38.26	272.54	514.32	282.07
Total earnings.....	3,008.25	10,431.59	14,569.50	120,431.23	14,090.70
EXPENSES					
Power purchased.....	1,912.27	6,568.65	11,362.71	82,258.71	9,345.12
Substation operation.....				2,282.68	
Substation maintenance.....				821.81	
Distribution system, operation and maintenance.....	32.18	308.00	439.70	3,529.19	866.07
Line transformer maintenance.....		21.55	28.52		
Meter maintenance.....	20.75	67.70	46.05	536.93	120.16
Consumers' premises expenses.....				79.32	
Street lighting, operation and main- tenance.....	52.57	73.40	326.81	1,142.40	130.31
Promotion of business.....					306.08
Billing and collecting.....		509.94	556.33	2,110.63	527.85
General office, salaries and expenses..	198.57	156.41	278.60	3,089.28	657.34
Undistributed expenses.....		25.00	30.44	288.18	27.01
Truck operation and maintenance.....				1,032.96	115.99
Interest.....	674.73			2,873.11	84.97
Sinking fund and principal payments on debentures.....				5,141.88	751.82
Depreciation.....	246.00	830.00	1,000.00	8,947.00	783.00
Other reserves.....					
Total operating costs and fixed charges.....	3,137.07	8,560.65	14,069.16	114,134.08	13,715.72
Net surplus.....		1,870.94	500.34	6,297.15	374.98
Net loss.....	128.82				
NUMBER OF CONSUMERS					
Domestic service.....	52	227	315	1,868	272
Commercial light service.....	22	36	74	243	73
Power service.....		6	10	75	5
Total.....	74	269	399	2,186	350

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Welland 10,655	Wellesley P.V.	West Lorne 776	Weston 4,828	Wheatley 754	Windsor 61,173	Wood- bridge 740	Woodstock 11,007
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
50,577.63	2,838.42	2,957.12	42,202.72	3,905.06	511,282.35	6,305.43	73,933.41
28,858.24	1,534.96	1,392.58	9,284.20	2,598.56	227,281.25	1,799.56	37,360.16
61,434.95	1,796.02	833.03	35,909.34	1,185.20	177,649.32	4,186.45	50,551.05
3,218.30			594.67	507.02	11,614.41	394.90	2,998.39
10,864.34	720.00	1,010.00	7,606.38	1,311.00	76,078.97	900.00	8,064.05
723.49							8.83
5,087.75	11.35	137.82	1,118.37	82.50		50.91	5,139.63
160,764.70	6,900.75	6,330.55	96,715.68	9,589.34	1,003,906.30	13,637.25	178,055.52
95,190.94	4,815.44	4,112.96	74,778.50	6,369.56	582,588.51	10,241.61	134,573.04
5,012.65			163.42		15,967.79		2,799.37
116.12					3,630.91		187.20
6,230.58	22.35	219.28	4,966.88	642.79	17,513.30	214.23	5,763.24
243.86	4.50	88.65	256.85	8.80	2,300.78		83.85
3,837.78	12.60	26.71	272.50	54.80	13,998.39	79.74	739.04
372.94			65.05		24,911.60	3.42	
1,623.30	106.55	177.26	1,058.83	274.94	17,475.00	68.05	2,312.30
					22,976.52		20.29
3,624.45		398.53	760.72	324.70	30,038.11		3,800.43
8,951.72	444.37	189.26	2,872.76	216.07	27,431.43	717.01	5,045.15
650.33	30.25	15.00	626.20	63.21	17,302.90		1,374.45
1,743.62			460.49		13,968.00		831.76
14,951.45	105.36	314.42	2,077.92	457.45	62,979.69	413.58	3,471.34
10,319.66	549.02	272.49	3,179.39	636.85	89,290.08	307.61	2,761.53
12,654.53	324.00	618.00	4,983.00	609.00	66,658.00	812.00	12,046.00
165,523.93	6,414.44	6,432.56	96,522.51	9,658.17	1,009,031.01	12,857.25	175,808.99
	486.31		193.17			780.00	2,246.53
4,759.23		102.01		68.83	5,124.71		
2,334	127	189	1,256	169	14,975	254	2,934
446	45	48	176	60	2,236	50	453
83	5	3	29	3	310	5	89
2,863	177	240	1,461	232	17,521	309	3,476

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

**NIAGARA  
SYSTEM—Concluded**

Municipality.....	Wyoming	*York Twp.	Zurich	NIAGARA SYSTEM SUMMARY
Population.....	505		P.V.	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,709.73	566,632.56	3,113.96	9,604,512.57
Commercial light service.....	1,662.31	67,907.02	1,910.73	5,139,414.23
Commercial power service.....	87.71	92,880.85		7,877,715.59
Municipal power.....				1,701,392.17
Street lighting.....	765.00	49,474.56	693.00	1,386,594.83
Merchandise.....				14,297.09
Miscellaneous.....	44.65	14,806.16	110.15	467,775.40
Total earnings.....	5,269.40	791,701.15	5,827.84	26,191,701.88
EXPENSES				
Power purchased.....	3,203.43	404,461.50	4,567.43	15,863,783.17
Substation operation.....		28,077.36		386,968.11
Substation maintenance.....				288,619.26
Distribution system, operation and maintenance.....	210.82	19,196.83	363.22	683,672.08
Line transformer maintenance.....		3,530.40		65,931.93
Meter maintenance.....		7,043.64	14.65	234,461.39
Consumers' premises expenses.....		22,680.12		343,929.33
Street lighting, operation and maintenance.....	60.31	7,685.07	77.18	259,221.89
Promotion of business.....		2,670.56		213,167.77
Billing and collecting.....	258.69	37,036.67	230.62	676,559.08
General office, salaries and expenses.....	109.60	32,606.98	22.96	738,922.25
Undistributed expenses.....		36,996.59	28.63	290,400.65
Truck operation and maintenance.....				77,518.89
Interest.....	99.68	202,967.45	209.19	1,982,280.53
Sinking fund and principal payments on debentures.....	795.58	23,012.96	184.28	2,161,666.45
Depreciation.....	404.00	21,394.00	388.00	1,655,012.39
Other reserves.....				25,145.12
Total operating costs and fixed charges.....	5,142.11	849,360.13	6,086.16	25,952,260.29
Net surplus.....	127.29			239,441.59
Net loss.....		57,658.98	258.32	
NUMBER OF CONSUMERS				
Domestic service.....	128	20,343	124	368,720
Commercial light service.....	49	1,062	46	57,479
Power service.....	1	148		10,599
Total.....	178	21,553	170	436,798

\*In this column the figures given are for the year ended Dec. 31st, 1933, and are not included in the System summary. The 1934 figures for York Twp. are included with the Toronto column figures, and have not yet been segregated.



“B”—Continued

Hydro Municipalities for Year Ended December 31, 1934

GEORGIAN BAY  
SYSTEM

Alliston	Arthur	Barrie	Beaverton	Beeton	Bradford	Brechin	Cannington
1,379	1,036	7,686	989	601	1,060	P.V.	864
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,598.06	4,532.27	53,312.22	6,186.17	3,702.58	6,521.11	957.73	5,228.96
4,699.85	3,718.74	29,040.17	2,247.30	2,562.38	3,161.58	990.36	2,237.31
1,876.35	1,455.95	16,462.72	1,138.88	1,837.31	1,882.87	826.19	618.71
795.78	535.65	1,029.02			367.50		
2,070.00	1,747.92	5,973.25	1,290.04	1,185.00	1,139.00	594.00	1,077.00
		49.32					
151.05		1,250.92	778.88	18.87	85.34	28.89	80.90
18,191.09	11,990.53	107,117.62	11,641.27	9,306.14	13,157.40	3,397.17	9,242.88
11,501.96	8,683.27	71,303.93	6,989.65	6,480.58	8,480.93	2,268.04	5,963.58
		1,042.98					
811.04	556.10	2,849.79	505.88	426.96	267.53	318.56	584.39
		192.73	7.55				
		1,212.22	25.99				
182.28	98.32	1,162.04	205.42	108.03	121.24	45.14	240.59
746.07		3,128.09	544.10		815.63		
98.86	369.05	1,181.48	207.08	387.34	76.50	69.36	651.44
205.29		1,097.93	85.00		242.34		
		746.34					
1,669.37	1,197.33	2,574.43	331.17	513.80	1,125.50	210.98	463.66
1,478.60	763.19	2,818.99	599.36	469.36	887.55	104.19	642.55
1,388.00	945.00	7,335.00	1,145.00	605.00	862.00	143.00	682.00
18,081.47	12,612.26	96,645.95	10,646.20	8,991.07	12,879.22	3,159.27	9,228.21
109.62		10,471.67	995.07	315.07	278.18	237.90	14.67
	621.73						
341	185	2,035	313	125	227	44	240
112	86	410	61	37	65	27	69
14	4	43	10	4	8	3	10
467	275	2,488	384	166	300	74	319

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	Chatsworth 308	Chesley 1,762	Coldwater 632	Collingwood 5,536	Cookstown P.V.
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,692.75	8,984.38	2,852.44	26,049.30	2,384.91
Commercial light service.....	1,367.56	4,079.24	1,761.53	9,664.85	1,099.95
Commercial power service.....		8,385.20	5,363.65	15,001.34	780.27
Municipal power.....		1,034.85		1,898.28	
Street lighting.....	492.00	1,605.34	571.00	2,832.00	840.00
Merchandise.....	47.58	13.09			
Miscellaneous.....		649.52	191.75	1,550.00	10.07
Total earnings.....	3,599.89	24,751.62	10,740.37	56,995.77	5,115.20
EXPENSES					
Power purchased.....	1,943.29	16,219.09	7,477.56	46,302.23	2,723.89
Substation operation.....				39.75	
Substation maintenance.....					
Distribution system, operation and maintenance.....	144.11	594.56	359.95	1,867.69	132.64
Line transformer maintenance.....		23.00			
Meter maintenance.....		203.00		79.40	
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	52.38	206.10	36.85	343.88	89.84
Promotion of business.....				20.77	
Billing and collecting.....		429.71		3,096.68	192.69
General office, salaries and expenses.....	263.11	610.82	343.54	2,699.42	50.31
Undistributed expenses.....		107.20		517.07	19.00
Truck operation and maintenance.....		57.00		240.87	
Interest.....	280.09	302.72	205.79		353.35
Sinking fund and principal payments on debentures.....	221.06	2,044.33	281.97		301.24
Depreciation.....	279.00	1,256.00	555.00	3,940.00	525.00
Other reserves.....					
Total operating costs and fixed charges.....	3,183.04	22,053.53	9,260.66	59,147.76	4,387.96
Net surplus.....	416.85	2,698.09	1,479.71		727.24
Net loss.....				2,151.99	
NUMBER OF CONSUMERS					
Domestic service.....	79	422	135	1,303	99
Commercial light service.....	33	98	53	200	28
Power service.....		19	3	52	4
Total.....	112	539	191	1,555	131

## “B”—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Creemore 620	Dundalk 650	Durham 1,776	Elmvale P.V.	Elmwood P.V.	Flesherton 488	Grand Valley 589	Graven- hurst 1,956
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,733.87	2,783.62	6,631.32	2,805.65	1,174.92	2,630.38	3,495.14	9,438.44
2,150.81	2,257.59	4,294.98	1,684.05	652.37	1,886.48	1,828.42	5,842.96
854.17	2,189.91	5,757.02	2,771.03	1,234.95	192.89	1,753.93	8,009.48
		717.67	140.05				701.58
708.00	1,230.00	1,935.00	650.00	529.00	621.00	936.00	2,179.00
							177.06
	173.97	429.01	35.29	37.52	33.13	116.52	83.75
7,446.85	8,635.09	19,765.00	8,086.07	3,628.76	5,363.88	8,130.01	26,432.27
5,056.67	5,832.59	14,375.17	5,624.42	2,206.15	3,411.87	5,122.10	15,001.49
							14.20
222.17	579.18	489.46	538.27	45.48	95.28	205.16	778.41
		25.00					48.76
		73.60					198.00
63.72	102.49	303.08	103.04	9.60	54.92	115.74	264.31
211.20	622.37	972.82					2,165.33
		469.81	282.77	198.17	405.46	562.78	302.65
		171.74	4.00				253.56
		272.19					405.38
72.12	34.28	257.99	161.83	181.59	425.85	158.86	648.59
534.79	398.16	1,374.73	293.53	451.64	233.48	805.22	434.51
403.00	451.00	1,168.00	631.00	248.00	348.00	545.00	1,780.00
							275.00
6,563.67	8,020.07	19,953.59	7,638.86	3,340.63	4,974.86	7,514.86	22,570.19
883.18	615.02		447.21	288.13	389.02	615.15	3,862.08
		188.59					
145	166	422	156	59	139	156	460
52	67	112	57	19	51	48	107
2	4	10	8	1	2	4	13
199	237	544	221	79	192	208	580



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	Hanover	Holstein	Huntsville	Kincardine	Kirkfield
Population.....	3,039	P.V.	2,563	2,511	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	19,142.23	1,304.56	11,427.81	14,453.96	759.85
Commercial light service.....	6,936.51	612.16	7,860.94	7,117.59	1,160.68
Commercial power service.....	18,638.24	27.30	12,224.17	10,717.54	
Municipal power.....	293.08		1,400.00	1,570.10	
Street lighting.....	2,992.00	350.00	2,714.35	4,133.75	460.00
Merchandise.....					
Miscellaneous.....	1,668.20		894.18	48.63	
Total earnings.....	49,670.26	2,294.02	36,521.45	38,041.57	2,380.53
EXPENSES					
Power purchased.....	30,090.20	1,873.31	25,318.32	26,838.54	1,410.37
Substation operation.....					
Substation maintenance.....				314.69	
Distribution system, operation and maintenance.....	1,679.50	40.71	1,729.94	1,169.54	310.21
Line transformer maintenance.....	35.05				
Meter maintenance.....	187.91		252.58		
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	321.36	10.72	618.25	299.12	10.03
Promotion of business.....			69.68	165.06	
Billing and collecting.....	1,010.86		1,121.26	671.80	
General office, salaries and expenses.....	719.60	158.83	714.96	523.33	30.57
Undistributed expenses.....	420.00		525.37	392.44	
Truck operation and maintenance.....	161.86		96.65	247.58	
Interest.....	2,157.47	165.75	310.60	1,987.45	220.13
Sinking fund and principal payments on debentures.....	5,489.83	225.54	727.55	3,352.96	368.75
Depreciation.....	3,348.00	112.00	1,120.00	2,171.00	215.00
Other reserves.....					
Total operating costs and fixed charges.....	45,621.64	2,586.86	32,605.16	38,133.51	2,565.06
Net surplus.....	4,048.62		3,916.29		
Net loss.....		292.84		91.94	184.53
NUMBER OF CONSUMERS					
Domestic service.....	716	53	589	617	31
Commercial light service.....	121	20	124	121	20
Power service.....	20		12	20	
Total.....	857	73	725	758	51

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Lucknow 964	Markdale 792	Meaford 2,687	Midland 6,925	Mildmay 714	Mount Forest 1,839	Neustadt 458	Orangeville 2,785
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,700.39	3,724.51	11,855.47	34,852.11	2,980.43	7,630.71	2,220.52	15,287.50
3,071.61	2,611.63	6,719.73	13,540.44	2,010.99	5,318.39	1,411.70	9,448.93
3,073.45	788.98	4,561.18	49,964.39	775.68	3,331.27	42.21	6,118.70
499.53	160.81	1,013.70	3,272.92		998.91		1,174.97
1,512.00	900.00	3,196.00	6,147.50	847.00	2,220.75	975.00	3,387.00
		4.43					19.22
265.37	78.01	860.99	2,141.76	39.95	232.09		187.37
15,122.35	8,263.94	28,211.50	109,919.12	6,654.05	19,732.12	4,649.43	35,623.69
10,595.27	5,403.80	15,614.15	79,290.97	3,537.81	15,248.51	3,333.21	23,271.67
			1,884.27				
			115.16				
218.70	82.49	2,079.68	2,935.70	169.00	507.89	171.37	1,115.37
		10.54	16.78				
		65.72	1,281.04	6.70	103.05		153.85
							11.05
106.36	62.10	128.72	742.80	74.60	333.13	60.70	357.65
			971.61				
		676.12	2,110.46		707.95		1,422.69
1,081.87	443.32	490.05	1,934.44	391.57	112.07	220.53	59.65
		443.31	1,394.42		67.70		105.28
		221.87	294.32		76.97		
670.95	337.29	1,917.09	3,236.02	594.77	645.99	917.75	497.38
1,018.15	324.94		4,132.95		670.42	1,039.49	2,410.04
762.00	599.00	1,400.00	9,885.00	215.00	1,366.00	581.00	2,019.00
14,453.30	7,252.94	23,047.25	110,225.94	4,988.95	19,839.68	6,324.05	31,423.63
669.05	1,011.00	5,164.25		1,665.10			4,200.06
			306.82		107.56	1,674.62	
271	196	637	1,589	147	458	92	669
88	72	142	216	47	143	31	155
6	9	16	58	2	13	1	25
365	277	795	1,863	196	614	124	849

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	Owen Sound 12,894	Paisley 713	Penetang- uishene 4,352	Port Elgin 1,351	Port McNicol 880
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	64,828.86	3,971.68	12,235.60	7,696.56	3,312.27
Commercial light service.....	37,669.05	2,728.17	4,501.99	3,962.43	835.07
Commercial power service.....	39,406.15	1,208.53	11,308.93	3,275.30	
Municipal power.....			2,185.58	853.78	
Street lighting.....	12,832.96	1,408.00	2,149.00	2,162.16	927.50
Merchandise.....	824.75				
Miscellaneous.....	764.82	138.00	96.23	610.22	
Total earnings.....	156,326.09	9,454.88	32,477.33	18,560.45	5,074.84
EXPENSES					
Power purchased.....	99,048.60	6,107.68	21,458.75	8,057.61	2,771.46
Substation operation.....	3,575.02		434.44		
Substation maintenance.....			80.64		
Distribution system, operation and maintenance.....	4,474.15	183.66	1,634.89	874.03	495.12
Line transformer maintenance.....	774.51		8.24	12.87	
Meter maintenance.....	1,916.38		74.75	55.95	
Consumers' premises expenses.....	4.88		16.08		
Street lighting, operation and main- tenance.....	2,072.42	109.50	216.49	181.11	137.65
Promotion of business.....	136.07		33.00		
Billing and collecting.....	4,867.73		879.46	703.58	
General office, salaries and expenses.....	5,248.31	528.91	508.93	126.92	147.19
Undistributed expenses.....	2,908.57		235.50	122.12	
Truck operation and maintenance.....	821.94		289.47	273.73	
Interest.....		555.05	1,142.08	1,921.90	157.15
Sinking fund and principal payments on debentures.....		783.82	1,734.44	1,470.02	514.10
Depreciation.....	7,222.00	526.00	2,920.00	871.00	405.00
Other reserves.....					
Total operating costs and fixed charges.....	133,070.58	8,794.62	31,667.16	14,670.84	4,627.67
Net surplus.....	23,255.51	659.76	810.17	3,889.61	447.17
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	3,185	175	609	365	195
Commercial light service.....	574	53	102	84	32
Power service.....	118	4	27	9	
Total.....	3,877	232	738	458	227



## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Port Perry 1,104	Priceville P.V.	Ripley 465	Rosseau 286	Shelburne 1,121	South- ampton 1,356	Stayner 995	Sunder- Land P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,817.87	560.73	3,313.20	3,267.90	5,485.48	7,945.62	4,425.38	2,331.70
2,864.18	373.66	1,818.19	969.41	3,530.53	3,376.56	2,750.32	1,760.97
2,133.88				2,080.78	3,074.40	2,337.22	60.67
350.96				658.37	1,288.00		
1,471.25	560.00	1,070.00	1,239.00	1,056.00	2,294.00	1,410.00	720.00
900.65	11.98	20.74	11.57	165.49	173.13	212.65	52.81
14,538.79	1,506.37	6,222.13	5,487.88	12,976.65	18,151.71	11,135.57	4,926.15
9,098.91	1,084.48	3,901.53	3,622.17	9,007.40	7,877.77	7,630.55	3,017.96
968.11	24.20	66.53	149.02	548.82	1,215.27	540.22	245.21
					31.27	48.22	
				6.00			
137.23	24.81	85.77	46.75	76.52	263.85	180.75	105.40
			191.10	558.02	831.59	502.86	
761.91	50.64	504.66	33.72	84.97	411.11	92.39	368.24
			29.00		161.91	137.00	
					321.37		
899.68	457.54	623.37	758.54	276.77	1,238.65	79.88	195.87
792.35	347.90	404.69	353.40	1,389.37	1,155.31	366.00	233.63
855.00	182.00	441.00	236.00	993.00	766.00	850.00	290.00
13,513.19	2,171.57	6,027.55	5,419.70	12,940.87	14,274.10	10,427.87	4,456.81
1,025.60		194.58	68.18	35.78	3,877.61	707.70	469.84
	665.20						
310	27	120	62	287	396	251	112
79	11	50	20	85	81	82	39
9				14	12	11	1
398	38	170	82	386	489	344	152

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	Tara	Teeswater	Thornton	Tottenham	Uxbridge
Population.....	505	796	P.V.	556	1,512
<b>EARNINGS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Domestic service.....	2,701.95	4,475.34	1,432.28	3,270.65	8,265.16
Commercial light service.....	1,373.63	2,514.88	567.49	1,954.92	3,295.58
Commercial power service.....	751.17	1,006.74	299.37	229.75	968.73
Municipal power.....		180.00		193.91	
Street lighting.....	1,126.00	1,402.00	880.00	1,225.08	1,743.02
Merchandise.....					
Miscellaneous.....	21.47	160.07	8.15	14.95	422.24
Total earnings.....	5,974.22	9,739.03	3,187.29	6,889.26	14,694.73
<b>EXPENSES</b>					
Power purchased.....	3,311.63	5,399.38	1,635.54	5,487.57	10,246.55
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	86.37	70.85	35.75	306.95	706.28
Line transformer maintenance.....					
Meter maintenance.....					
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	94.13	66.98	33.65	108.96	255.23
Promotion of business.....					
Billing and collecting.....					
General office, salaries and expenses.....	572.15	510.59	84.44	215.71	801.21
Undistributed expenses.....					
Truck operation and maintenance.....					
Interest.....	302.40	838.54	270.07	405.68	723.91
Sinking fund and principal payments on debentures.....	994.65	1,206.43	450.53	404.02	1,032.09
Depreciation.....	546.00	712.00	317.00	425.00	695.00
Other reserves.....					
Total operating costs and fixed charges.....	5,907.33	8,804.77	2,826.98	7,353.89	14,460.27
Net surplus.....	66.89	934.26	360.31		234.46
Net loss.....				464.63	
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	140	196	56	121	360
Commercial light service.....	37	60	17	52	93
Power service.....	4	6	2	5	10
Total.....	181	262	75	178	463

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Victoria Harbor 1,126	Walker-ton 2,370	Waubau-shene P.V.	Warton 1,815	Winder-mere 130	Wingham 1,923	Wood-ville 420	GEORGIAN BAY SYSTEM SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,920.70	15,025.75	2,315.90	8,263.00	2,540.07	12,831.04	2,266.10	488,537.06
839.58	8,269.30	715.54	5,775.95	1,172.79	6,946.66	1,131.46	256,748.09
47.27	4,344.67	414.15	2,291.15		9,341.01	704.41	273,940.21
124.66	635.48	98.66	1,494.19		638.50		26,306.49
702.00	2,402.04	405.00	2,300.00	455.00	3,423.00	532.00	105,934.91
	187.30				215.64		1,538.39
5.59	70.24	64.47	225.80	35.65	395.10	212.61	16,916.06
4,639.80	30,934.78	4,013.72	20,350.09	4,203.51	33,790.95	4,846.58	1,169,921.21
2,892.10	15,333.55	1,937.22	13,459.79	2,122.33	16,547.73	2,870.91	758,723.26
					1,456.54		8,447.20
							510.49
198.83	1,432.42	158.82	515.20	248.51	2,138.35	389.30	42,289.57
	215.38						1,370.41
	390.38		86.54		41.60		6,488.15
							38.01
107.38	490.42	62.64	209.58	19.25	511.73	37.05	12,669.80
							1,396.19
	1,366.07		990.55	176.53	499.12		31,377.87
370.74	1,169.70	388.21	127.84	45.26	796.08	361.83	31,256.97
	102.66		195.76	11.25	477.60		10,433.02
	380.87		226.56		19.37		5,154.34
60.55	2,954.71	159.07	1,846.25	678.11	2,228.77	162.42	43,764.90
488.69	2,100.57	111.85	1,187.62	399.01	1,680.55	244.91	54,745.02
400.00	1,386.00	295.00	778.00	298.00	2,935.00	232.00	74,603.00
							275.00
4,518.29	27,322.73	3,112.81	19,623.69	3,998.25	29,332.44	4,298.42	1,083,543.20
121.51	3,612.05	900.91	726.40	205.26	4,458.51	548.16	86,378.01
172	548	137	352	51	504	112	22,159
27	134	24	117	10	146	31	5,132
2	17	3	14		23	2	693
201	699	164	483	61	673	145	27,984



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO  
SYSTEM

Municipality.....	Alexandria	Apple Hill	Athens	Bath	Belleville
Population.....	1,928	P.V.	652	355	14,012
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	6,835.85	1,105.12	3,575.13	1,382.54	79,141.54
Commercial light service.....	4,014.55	810.93	1,570.16	782.45	51,734.65
Commercial power service.....	3,975.24	279.57	1,105.89		35,698.11
Municipal power.....	1,491.75				7,468.24
Street lighting.....	2,640.00	559.60	1,101.00	714.00	11,666.50
Merchandise.....					
Miscellaneous.....	409.40		106.41		1,965.49
Total earnings.....	19,366.79	2,755.22	7,458.59	2,878.99	187,674.53
EXPENSES					
Power purchased.....	12,386.04	1,511.72	3,766.31	2,158.48	123,562.15
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	815.47	70.26	149.97	5.07	4,392.61
Line transformer maintenance.....	81.87				246.71
Meter maintenance.....	189.53				1,849.57
Consumers' premises expenses.....					166.80
Street lighting, operation and maintenance.....	203.51	64.98	76.16	19.92	1,496.69
Promotion of business.....					1,217.02
Billing and collecting.....	791.28				4,438.19
General office, salaries and expenses..	373.57	252.28	171.73	126.24	5,903.15
Undistributed expenses.....	76.59		15.00		1,466.54
Truck operation and maintenance.....					188.47
Interest.....	1,389.23	201.72	683.40	466.93	1,235.61
Sinking fund and principal payments on debentures.....	2,648.32	322.18	524.77	226.92	6,000.00
Depreciation.....	1,327.00	165.00	457.00	174.00	5,534.00
Other reserves.....	250.00		37.89		
Total operating costs and fixed charges.....	20,532.41	2,588.14	5,882.23	3,177.56	157,697.51
Net surplus.....		167.08	1,576.36		29,977.02
Net loss.....	1,165.62			298.57	
NUMBER OF CONSUMERS					
Domestic service.....	300	43	145	32	3,077
Commercial light service.....	95	21	45	16	595
Power service.....	14	1	1		90
Total.....	409	65	191	48	3,762

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Bloomfield 619	Bowman- ville 3,626	Brighton 1,442	Brockville 9,654	Cardinal 1,395	Carleton Place 4,272	Chesterville 970
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,930.69	29,541.77	10,010.58	46,677.66	6,959.24	19,033.09	5,427.10
979.18	10,014.12	4,917.65	25,305.75	1,875.06	8,983.67	2,389.97
1,241.68	46,527.51	2,471.70	30,103.55	536.64	26,289.90	1,361.85
720.00	4,187.74	2,191.92	6,035.90	907.00	1,781.48	1,032.00
24.52	810.83	173.73	8,822.00		4,786.00	31.57
		121.84	5,914.46		1,966.36	450.90
5,896.07	91,081.97	19,887.42	122,859.32	10,277.94	62,840.50	10,693.39
3,846.75	62,306.90	8,901.03	71,432.96	4,800.98	36,507.94	7,399.20
			5,190.00			
			757.15		171.44	
79.37	2,729.06	1,418.81	2,428.33	683.20	1,797.33	1,005.40
	89.70	20.75	246.79		20.41	
133.11	724.87	471.30	2,095.98	5.40	241.97	25.15
	11.91	116.13		.90	113.24	
51.05	346.17	210.04	1,773.29	181.73	312.85	133.38
			212.95		35.11	
	1,815.32	778.60	2,285.77		1,589.16	366.70
164.15	2,177.08	1,447.57	4,656.03	485.04	3,310.87	391.68
	1,098.56	647.20	1,585.27	66.54	204.83	37.94
		238.01	846.73		555.92	
495.58	3,031.67	1,126.84		682.48	2,618.49	143.35
428.05	2,418.99	892.22		525.13	2,554.26	201.40
507.00	1,561.00	585.00	8,612.00	370.00	2,063.00	619.00
			4,000.00		500.00	
5,705.06	78,311.23	16,853.50	106,123.25	7,801.40	52,596.82	10,323.20
191.01	12,770.74	3,033.92	16,736.07	2,476.54	10,243.68	370.19
153	1,052	479	2,570	308	957	232
28	173	98	436	53	184	68
6	34	11	67	2	19	3
187	1,259	588	3,073	363	1,160	303

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Continued

Municipality.....	Cobourg	Colborne	Deseronto	Finch	Hastings
Population.....	5,556	1,040	1,399	393	753
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	31,488.12	5,197.09	6,183.07	1,821.05	4,031.38
Commercial light service.....	18,599.60	3,563.94	2,265.64	1,354.08	1,582.54
Commercial power service.....	23,994.73	700.55	1,075.91	769.79	677.57
Municipal power.....	2,583.78		695.41		
Street lighting.....	5,601.54	1,317.25	1,791.96	570.00	1,290.34
Merchandise.....			82.40		
Miscellaneous.....	1,044.26	275.83	163.93	136.53	380.95
Total earnings.....	83,312.03	11,054.66	12,258.32	4,651.45	7,962.78
EXPENSES					
Power purchased.....	49,665.05	4,533.22	6,200.71	2,808.56	3,596.18
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,051.79	871.64	808.63	227.81	411.74
Line transformer maintenance.....	505.64				15.00
Meter maintenance.....	913.50	44.73	29.60		6.65
Consumers' premises expenses.....	217.61				
Street lighting, operation and maintenance.....	711.19	204.09	321.88	8.25	124.23
Promotion of business.....	23.27	14.56			
Billing and collecting.....	2,904.55		301.22		234.04
General office, salaries and expenses.....	3,678.22	1,119.23	691.31	224.69	56.40
Undistributed expenses.....	1,268.35	68.35	44.44	25.58	41.53
Truck operation and maintenance.....	156.17	335.29			
Interest.....	4,566.60	732.13	508.37	379.52	1,085.17
Sinking fund and principal payments on debentures.....	3,447.48	432.23	511.06	269.91	670.33
Depreciation.....	2,415.00	220.00	369.00	265.00	440.00
Other reserves.....				60.00	
Total operating costs and fixed charges.....	72,524.42	8,575.47	9,786.22	4,269.32	6,681.27
Net surplus.....	10,787.61	2,479.19	2,472.10	382.13	1,281.51
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	1,202	235	278	80	189
Commercial light service.....	278	82	63	32	53
Power service.....	44	3	14	1	5
Total.....	1,524	320	355	113	247



## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Havelock	Kemptville	Kingston	Lakefield	Lanark	Lancaster	Lindsay
1,249	1,227	23,260	1,387	623	575	6,963
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,960.19	7,108.96	115,553.94	6,324.64	2,879.49	2,019.15	38,819.77
2,194.92	4,520.83	76,595.44	3,490.74	1,251.36	1,565.75	22,789.74
2,603.14	4,121.02	95,585.80	1,444.28			25,925.84
		10,083.61				3,658.51
1,508.00	1,830.00	22,065.86	1,845.87	592.00	1,496.50	7,977.46
379.17	1,008.53	3,865.50	508.97	100.21		2,859.87
12,645.42	18,589.34	323,750.15	13,614.50	4,823.06	5,081.40	102,031.19
6,245.81	10,392.43	151,250.40	8,710.71	3,009.13	3,242.42	69,672.57
		5,044.40				
		3,964.60				
803.30	1,162.70	13,020.04	828.28	67.11	116.50	2,516.97
9.60	31.93	693.43	16.05			460.06
3.87	82.27	4,724.21	48.21	25.90		1,204.88
	4.00	1,979.95				477.63
214.43	340.20	3,781.66	178.49	25.80	30.74	1,393.43
	180.00	159.03				
	981.51	7,133.66	523.76			2,714.21
458.77	403.39	13,643.21	484.31	311.78	322.64	6,135.20
	105.92	8,582.23	87.83	25.25		1,313.66
251.99	335.49	2,114.65				178.11
982.49	1,098.33	4,849.35	1,728.46	206.04	381.72	5,246.82
1,882.12	674.47	10,213.46	831.13	492.31	753.77	5,017.74
876.00	948.00	20,524.00	1,167.00	267.00	285.00	3,611.00
		37,500.00				
11,728.38	16,740.64	289,178.28	14,604.23	4,430.32	5,132.79	99,942.28
917.04	1,848.70	34,571.87		392.74		2,088.91
			989.73		51.39	
281	321	5,645	312	154	84	1,812
60	78	864	68	39	34	329
3	7	144	5			77
344	406	6,653	385	193	118	2,218

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Continued

Municipality.....	Madoc	Marmora	Martintown	Maxville
Population.....	1,067	1,015	P.V.	725
<b>EARNINGS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Domestic service.....	4,884.31	3,912.68	829.16	3,225.77
Commercial light service.....	3,536.32	1,789.38	917.32	2,523.20
Commercial power service.....	1,828.65	165.76		
Municipal power.....				
Street lighting.....	1,500.00	1,450.00	300.00	1,430.04
Merchandise.....				
Miscellaneous.....	38.82	84.66	74.42	29.55
Total earnings.....	11,788.10	7,402.48	2,120.90	7,208.56
<b>EXPENSES</b>				
Power purchased.....	6,247.20	4,184.28	973.55	4,220.32
Substation operation.....				
Substation maintenance.....				
Distribution system, operation and maintenance.....	813.84	271.49	59.10	220.68
Line transformer maintenance.....				
Meter maintenance.....	2.55			
Consumers' premises expenses.....				
Street lighting, operation and maintenance.....	13.20	51.58	45.28	111.45
Promotion of business.....				
Billing and collecting.....				
General office, salaries and expenses.....	826.82	562.93	132.74	282.80
Undistributed expenses.....		25.64		
Truck operation and maintenance.....				
Interest.....	44.90	498.39	175.20	418.48
Sinking fund and principal payments on debentures.....	469.85	767.62	347.90	920.39
Depreciation.....	417.00	555.00	139.00	498.00
Other reserves.....			70.00	
Total operating costs and fixed charges.....	8,835.36	6,916.93	1,942.77	6,672.12
Net surplus.....	2,952.74	485.55	178.13	536.44
Net loss.....				
<b>NUMBER OF CONSUMERS</b>				
Domestic service.....	280	208	36	135
Commercial light service.....	92	49	20	48
Power service.....	6	2		
Total.....	378	259	56	183

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1934

Napanee	Norwood	Omemeë	Oshawa	Ottawa	Perth	Peterborough
2,827	868	551	22,444	132,551	4,052	22,850
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
26,408.56	4,864.87	2,204.87	160,650.53	445,443.36	23,494.77	126,242.49
13,876.11	2,482.65	1,330.43	61,297.29	165,972.08	15,960.51	63,611.56
11,686.78	652.17	1,543.36	172,372.95	56,789.02	16,491.95	78,518.64
1,235.63			8,166.81	25,122.90	2,131.18	6,843.59
4,744.93	1,569.00	956.40	10,611.72	73,796.29	2,066.00	21,637.68
					1,491.10	
1,286.44	492.25		4,696.36	3,000.00	2,988.55	1,155.99
59,238.45	10,060.94	6,035.06	417,795.66	770,123.65	64,624.06	298,009.95
33,208.26	3,716.38	3,091.62	344,999.04	368,528.56	35,107.37	188,310.48
				27,617.82	360.00	5,999.59
				741.53		243.39
2,622.09	593.53	536.01	4,843.62	26,369.33	1,399.13	5,554.24
152.86		6.38	436.95	1,916.16	167.42	1,037.71
963.56	81.45	73.39	4,012.07	10,044.16	568.95	4,555.09
44.90	2.00		462.61	3,929.73	23.56	577.25
504.15		124.93	1,812.51	30,211.17	573.88	3,739.53
			241.97	10,066.56		
1,482.86			7,603.70	42,563.27	1,637.15	6,979.28
3,942.61	425.78	294.38	6,636.24	26,984.87	3,349.47	6,133.98
1,837.23			4,358.21	19,143.38	713.46	5,442.25
	233.26			2,297.48	416.80	2,646.65
1,550.86	1,679.57	177.91	12,553.17	41,408.64	3,329.58	27,609.50
2,498.26	1,087.78	805.91	11,589.00	21,587.45	1,928.30	14,263.54
1,513.00	1,054.00	586.00	9,578.00	73,605.00	3,381.00	16,260.00
						1,200.00
50,320.64	8,873.75	5,696.53	409,127.09	707,015.11	52,956.07	290,552.48
8,917.81	1,187.19	338.53	8,668.57	63,108.54	11,667.99	7,457.47
765	213	128	5,956	12,699	943	5,353
195	64	46	510	1,348	193	803
32	2	6	101	200	25	155
992	279	180	6,567	14,247	1,161	6,311



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Continued

Municipality.....	Pictou	Port Hope	Prescott	Richmond	Russell
Population.....	3,313	4,520	3,083	413	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	22,534.56	29,702.71	16,061.63	1,843.49	2,622.95
Commercial light service.....	13,250.39	12,066.16	8,269.96	1,518.24	1,134.81
Commercial power service.....	6,683.30	24,208.53	3,343.57		
Municipal power.....	2,020.52	2,010.81	1,668.12		
Street lighting.....	4,364.04	4,620.00	3,475.00	520.04	740.00
Merchandise.....	489.58				
Miscellaneous.....	1,676.80	252.13	229.96	3.52	37.93
Total earnings.....	51,019.19	72,860.34	33,048.24	3,885.29	4,535.69
EXPENSES					
Power purchased.....	37,843.57	42,909.52	22,632.95	2,434.69	2,752.97
Substation operation.....			1,439.99		
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,688.07	1,801.38	2,320.82	32.58	85.35
Line transformer maintenance.....	68.96	189.89	2.00		
Meter maintenance.....	34.14	1,171.68	277.29	75.75	
Consumers' premises expenses.....	3.50		.25		
Street lighting, operation and maintenance.....	380.22	680.11	723.93	19.16	74.37
Promotion of business.....					
Billing and collecting.....	1,027.22	1,694.43	1,193.86		
General office, salaries and expenses.....	2,792.09	3,886.31	2,075.31	238.56	364.20
Undistributed expenses.....	171.75	986.92	348.95		
Truck operation and maintenance.....	289.72	252.18			
Interest.....		1,316.20	43.77	332.09	396.66
Sinking fund and principal payments on debentures.....		2,953.32		236.43	440.13
Depreciation.....	2,014.00	1,938.00	2,714.00	199.00	282.00
Other reserves.....				52.84	
Total operating costs and fixed charges.....	46,313.24	59,779.94	33,773.12	3,621.10	4,395.68
Net surplus.....	4,705.95	13,080.40		264.19	140.01
Net loss.....			724.88		
NUMBER OF CONSUMERS					
Domestic service.....	991	1,207	660	55	105
Commercial light service.....	206	199	156	25	34
Power service.....	36	44	18		
Total.....	1,233	1,450	834	80	139

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1934

Smiths Falls	Stirling	Trenton	Tweed	Warkworth	Wellington	Westport
7,502	949	6,288	1,287	P.V.	920	738
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
42,734.01	5,454.87	29,554.98	6,177.30	2,250.85	4,742.66	3,120.69
15,271.34	3,476.71	18,632.97	4,551.82	1,543.53	1,930.48	2,625.60
21,142.66	1,584.22	67,263.61	2,645.28		1,922.92	
1,705.58	266.17	1,770.78	221.62			
7,665.00	1,453.25	8,076.00	1,875.00	672.00	1,160.04	1,383.50
82.07	253.98		281.07			
3,461.69	416.94	2,225.46	219.04	142.29	250.00	156.07
92,062.35	12,906.14	127,523.80	15,971.13	4,608.67	10,006.10	7,285.86
45,402.52	6,913.41	76,517.52	8,795.09	2,707.92	6,645.73	4,429.91
2,083.60	245.71					
338.41		73.53				
2,927.37	1,072.75	1,769.29	779.54	56.58	666.65	153.53
	28.18	206.08		9.13		9.15
646.56	79.25	1,936.39	316.23		69.51	16.01
123.83		170.52				
670.49	260.31	1,548.01	399.21	19.25	155.62	133.91
		20.82				
3,339.48	456.45	2,559.67	794.17			
4,042.64	1,078.02	4,891.08	707.51	206.77	591.50	538.65
650.83	26.78	1,631.46	114.52		35.57	23.25
587.92	556.87	182.38				
4,166.56		7,422.17	610.69	565.03	808.49	759.31
13,070.58		5,621.59	678.09	235.07	681.61	478.81
5,954.00	957.00	3,816.00	460.00	208.00	724.00	210.00
250.00						
84,254.79	11,674.73	108,366.51	13,655.05	4,007.75	10,378.68	6,752.53
7,807.56	1,231.41	19,157.29	2,316.08	600.92		533.33
					372.58	
1,693	277	1,259	249	117	286	90
263	86	249	92	38	63	45
48	9	50	12		6	
2,004	372	1,558	353	155	355	135

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Concluded

Municipality.....	Whitby	Williamsburg	Winchester	EASTERN ONTARIO SYSTEM SUMMARY
Population.....	5,297	P.V.	930	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	19,879.51	3,546.52	6,291.18	1,438,686.44
Commercial light service.....	10,157.37	6,544.69	3,372.12	690,795.76
Commercial power service.....	14,085.38	181.87	1,604.58	791,205.47
Municipal power.....	2,219.63			89,182.02
Street lighting.....	3,695.61	240.00	1,062.00	248,278.08
Merchandise.....			26.75	2,912.25
Miscellaneous.....	1,595.17	223.04	368.35	47,599.39
Total earnings.....	51,632.67	10,736.12	12,724.98	3,308,659.41
EXPENSES				
Power purchased.....	34,315.82	5,285.45	8,201.43	1,958,283.21
Substation operation.....	193.32			48,174.43
Substation maintenance.....				6,290.05
Distribution system, operation and maintenance.....	2,349.31	319.29	541.45	98,308.41
Line transformer maintenance.....	51.82			6,720.63
Meter maintenance.....	611.63		83.25	38,439.61
Consumers' premises expenses.....		0.75		8,427.07
Street lighting, operation and main- tenance.....	567.75	63.46	105.68	55,193.32
Promotion of business.....	24.11			12,195.40
Billing and collecting.....	1,440.36		430.66	100,060.53
General office, salaries and expenses..	1,248.10	424.63	489.44	120,135.97
Undistributed expenses.....	159.47			52,431.28
Truck operation and maintenance.....	249.30			12,913.39
Interest.....	1,990.68	40.60	366.15	142,104.90
Sinking fund and principal payments on debentures.....	2,329.43	210.01	407.55	125,546.87
Depreciation.....	2,958.05	198.00	626.00	184,205.05
Other reserves.....		432.02		44,352.75
Total operating costs and fixed charges.....	48,489.15	6,974.21	11,251.61	3,013,782.87
Net surplus.....	3,143.52	3,761.91	1,473.37	294,876.54
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	825	98	278	54,847
Commercial light service.....	153	62	68	8,899
Power service.....	21	1	2	1,327
Total.....	999	161	348	65,073



“B”—Concluded

Hydro Municipalities for Year Ended December 31, 1934

THUNDER BAY  
SYSTEM

Fort William 24,709	Nipigon	Port Arthur 20,064	THUNDER BAY SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
200,719.69	2,593.14	108,984.20	312,297.03	11,844,033.10
63,797.04	1,793.53	53,537.70	119,128.27	6,206,086.35
42,168.69	291.64	707,462.77	749,923.10	9,692,784.37
23,753.96	648.47	34,686.69	59,089.12	1,875,969.80
17,293.91	510.00	18,984.96	36,788.87	1,777,596.69
7,450.85		15,430.34	22,881.19	18,747.73
				555,172.04
355,184.14	5,836.78	939,086.66	1,300,107.58	31,970,390.08
244,677.70	2,515.26	758,905.19	1,006,098.15	19,591,887.79
5,845.16		19,509.19	25,354.35	468,944.09
204.09		926.63	1,130.72	296,550.52
7,920.82	275.74	12,347.33	20,543.89	844,813.95
267.73	28.00	853.48	1,149.21	75,172.18
6,990.64	29.16	4,993.84	12,013.64	291,402.79
104.68			104.68	352,499.09
5,436.07	66.75	6,196.97	11,699.79	338,784.80
		1,982.00	1,982.00	228,741.36
10,290.94		9,571.78	19,862.72	827,860.20
5,197.57	984.62	11,542.37	17,724.56	908,039.75
3,702.00	55.00	5,300.17	9,057.17	362,322.12
1,536.47		958.52	2,494.99	98,081.61
20,820.62	388.25	15,635.05	36,843.92	2,204,994.25
8,301.37	459.28	7,450.13	16,210.78	2,358,169.12
12,143.00	501.00	27,160.75	39,804.75	1,953,625.19
1,882.51		11,356.76	13,239.27	83,012.14
335,321.37	5,303.06	894,690.16	1,235,314.59	31,284,900.95
19,862.77	533.72	44,396.50	64,792.99	685,489.13
5,244	147	4,318	9,709	455,435
869	37	712	1,618	73,128
94	2	99	195	12,814
6,207	186	5,129	11,522	541,377



## STATEMENT "C"

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Acton.....	1,885	{ 127 5 61 1 4	{ 80 c.p. s 80 c.p. (twp.) s 100 watt m 150 watt m 300 watt m	{ 9.00 12.00 9.00 12.00 20.00	1,829.01	0.97
Agincourt.....		61	100 watt m	13.00	767.00	
Ailsa Craig.....	468	{ 61 1	{ 100 watt m 200 watt m	{ 10.00 18.00	628.00	1.34
Alexandria.....	1,928	{ 95 41	{ 100 watt m 200 watt m	{ 17.00 25.00	2,640.00	1.37
Alliston.....	1,379	{ 103 12	{ 100 c.p. s 100 watt m	{ 18.00 18.00	2,070.00	1.50
Alvinston.....	648	{ 84 6	{ 100 watt m 200 watt m	{ 20.00 29.00	1,854.00	2.86
Amherstburg.....	3,128	{ 82 9 23 12	{ 100 c.p. s 250 c.p. s 200 watt m 300 watt m	{ 15.00 30.00 20.00 30.00	2,310.08	††
Ancaster Twp.....		{ 32 39 10	{ 100 watt m 150 watt m 150 watt m (5½ mos.)	{ 12.50 15.00 15.00	1,053.76	**
Apple Hill.....		33	100 watt m	17.00	559.60	**
Arkona.....	397	48	100 watt m	20.00	960.00	2.42
Arthur.....	1,036	92	100 watt m	19.00	1,747.92	1.69
Athens.....	652	{ 40 23	{ 100 watt m 200 watt m	{ 12.00 27.00	1,101.00	1.69
Aylmer.....	1,987	{ 92 24 1	{ 100 watt m 300 watt m 40 watt traffic lt.	{ 10.00 25.00 40.00	2,343.00	1.18
Ayr.....	773	{ 92 3	{ 100 watt m 500 watt m	{ 10.00 36.00	1,027.99	1.33
Baden.....		65	100 watt m	10.00	650.00	**
Barrie.....	7,686	{ 465 15 41 23	{ 150 c.p. s 100 watt m 200 watt m 300 watt m	{ 9.00 17.00 22.00 25.00	5,973.25	0.78
Bath.....	355	21	100 watt m	34.00	714.00	2.01
Beachville.....		47	100 watt m	11.00	517.00	**

\*\*Population not shown in Government statistics. s Series system. m Multiple system.  
††Part cost paid direct in form of debenture charges.



## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita.
					\$ c.	\$ c.	\$ c
Beaverton.....	989	{ 104 10 6	100 watt 100 watt (6 mos.) 500 watt	<i>m</i> <i>m</i> <i>m</i>	10.00 7.00 30.00	1,290.04	1.30
Beeton.....	601	{ 65 14	150 c.p. 100 watt	<i>s</i> <i>m</i>	15.00 15.00	1,185.00	1.97
Belle River.....	719	63	100 watt	<i>m</i>	12.00	760.00	1.06
Belleville.....	14,012	{ 549 23 52 104	100 c.p. 400 c.p. 1,000 c.p. 300 watt	<i>s</i> <i>s</i> <i>s</i> <i>m</i>	9.00 28.00 52.00 33.00	11,666.50	0.83
Blenheim.....	1,702	{ 164 3 12	150 c.p. 400 c.p. 600 c.p.	<i>s</i> <i>s</i> <i>s</i>	12.00 28.00 37.00	2,511.00	††
Bloomfield.....	619	60	100 c.p.	<i>s</i>	12.00	720.00	1.16
Blyth.....	626	100	100 watt	<i>m</i>	13.00	1,300.00	2.08
Bolton.....	553	{ 45 23	100 watt 200 watt	<i>m</i> <i>m</i>	13.00 23.00	1,113.96	2.01
Bothwell.....	685	{ 66 21	100 watt 300 watt	<i>m</i> <i>m</i>	11.00 27.00	1,293.00	1.89
Bowmanville.....	3,626	{ 177 4 42	100 c.p. 150 watt 300 watt	<i>s</i> <i>m</i> <i>m</i>	14.00 27.00 37.00	4,187.74	1.15
Bradford.....	1,060	{ 60 7	80 c.p. 100 watt	<i>s</i> <i>m</i>	17.00 17.00	1,139.00	1.07
Brampton.....	5,550	{ 667 2 13	100 watt 500 watt Fire alarm	<i>m</i> <i>m</i> <i>m</i>	8.00 35.00 6.50	5,453.16	0.98
Brantford.....	30,611	{ 149 3,410 8 18 4 2	1,500 c.p. 100 watt 250 watt 750 watt 750 watt 300 watt	<i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	45.00 7.50 10.00 37.00 46.00 16.00	33,080.33	††
Brantford Twp.....		371	100 watt	<i>m</i>	11.00	4,065.42	**
Brechin.....	‡	33	100 watt	<i>m</i>	18.00	594.00	**
Bridgeport.....		{ 57 12	100 watt 100 watt (6 mos.)	<i>m</i> <i>m</i>	10.00 7.00	588.50	**
Brigden.....		{ 41 21	60 watt 100 watt	<i>m</i> <i>m</i>	11.00 14.00	745.00	**

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Part cost paid direct in form of debenture charges.

‡Includes Mara and Thorah Townships.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Brighton.....	1,442	137	100 c.p.	s	\$ c. 16.00	\$ c. 2,191.92	\$ c. 1.52
Brockville.....	9,654	{ 593 15 35 49 6	{ 100 c.p. 1 Lt. Stds. 3 Lt. Stds. 5 Lt. Stds. 300 c.p.	{ s s s s s	{ 11.00 17.00 21.00 24.00 24.00	8,822.00	0.91
Brussels.....	766	{ 80 18	{ 100 watt 200 watt	{ m m	{ 12.00 18.00	1,284.00	1.68
Burford.....		67	100 watt	m	10.00	670.00	**
Burgessville.....		24	100 watt	m	13.00	312.00	**
Caledonia.....	1,475	{ 152 20 8 2	{ 100 watt 100 watt 100 watt 300 watt	{ m m m m	{ 9.00 9.50 13.00 21.00	1,544.96	1.65
Campbellville.....		20	100 watt	m	24.00	474.00	**
Cannington.....	864	{ 61 3 3	{ 100 watt 300 watt 500 watt	{ m m m	{ 14.00 22.00 32.00	1,022.00	1.18
Cardinal.....	1,395	{ 42 12	{ 100 watt 200 watt	{ m m	{ 15.00 21.00	907.00	0.65
Carleton Place....	4,272	{ 82 101 68	{ 60 watt 200 watt 300 watt	{ m m m	{ 13.00 20.00 25.00	4,786.00	1.12
Cayuga.....	693	80	100 watt	m	18.00	1,440.00	2.08
Chatham.....	16,140	{ 35 716 32 75 37 136 2	{ 150 c.p. 150 c.p. 250 c.p. 600 c.p. 600 c.p. 1,000 c.p. 250 watt Park floodlights	{ s s s s s s m m	{ 12.00 13.00 16.00 30.00 31.00 38.00 24.00 357.50	19,095.53	††
Chatsworth.....	308	41	100 watt	m	12.00	492.00	1.60
Chesley.....	1,762	116	150 c.p.	s	14.00	1,605.34	0.91
Chesterville.....	970	86	100 watt	m	12.00	1,032.00	1.07
Chippawa.....	1,051	93	100 watt	m	13.00	1,161.00	1.10
Clifford.....	440	62	100 watt	m	14.00	868.00	1.99
Clinton.....	1,848	{ 148 29 1	{ 150 c.p. 100 watt 500 watt	{ s m m	{ 11.00 11.00 55.00	1,988.53	1.08

\*\*Population not shown in Government statistics. s Series system. m Multiple system.  
††Part cost paid direct in form of debenture charges.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Cobourg.....	5,556	{ 388 4 18	100 c.p. 250 c.p. 500 watt	s s m	12.00 23.00 47.50	5,601.54	1.01
Colborne.....	1,040	{ 115 3	60 c.p. 100 watt	s m	12.00 12.00	1,317.25	1.27
Coldwater.....		{ 6 47	60 watt 100 watt	m m	9.00 11.00	571.00	0.90
Collingwood.....	5,536	354	100 c.p.	s	8.00	2,832.00	0.51
Comber.....		26	100 watt	m	18.00	471.00	**
Cookstown.....		56	150 c.p.	s	15.00	840.00	**
Cottam.....		31	100 watt	m	15.00	465.00	**
Courtright.....	338	43	100 watt	m	18.00	774.00	2.29
Creemore.....	620	59	100 watt	m	12.00	708.00	1.14
Dashwood.....		41	100 watt	m	11.00	451.00	**
Delaware.....		22	100 watt	m	12.00	264.00	**
Deseronto.....	1,399	128	100 watt	m	14.00	1,791.96	1.28
Dorchester.....		63	100 watt	m	10.00	612.47	**
Drayton.....	559	75	100 watt	m	10.00	750.00	1.34
Dresden.....	1,469	{ 127 15 12	100 c.p. 50 watt 100 watt	s m m	13.00 4.56 12.00	1,862.24	1.27
Drumbo.....		39	100 watt	m	13.00	507.00	**
Dublin.....		50	100 watt	m	15.00	750.00	**
Dundalk.....	650	82	100 watt	m	15.00	1,230.00	1.89
Dundas.....	5,032	{ 286 18 54	100 watt 200 watt 200 watt	m m m	12.00 16.00 32.00	5,487.00	1.09
Dunnville.....	3,632	{ 249 27	150 c.p. 1,000 c.p.	s s	11.00 45.00	3,945.56	1.09
Durham.....	1,776	{ 105 6	150 c.p. 400 c.p.	s s	17.00 25.00	1,935.00	1.09
Dutton.....	798	112	100 watt	m	9.00	1,010.94	1.27
East Windsor.....	14,009	{ 338 194	100 watt 200 watt	m m	8.00 14.00	8,419.92	††

\*\*Population not shown in Government statistics. s Series system. m Multiple system.

††Part cost paid direct in form of debenture charges.



## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
East York Twp.		1	60 watt	<i>m</i> 7.80	19,553.92	**
		944	100 watt	<i>m</i> 13.00		
		4	200 watt	<i>m</i> 19.50		
		2	250 watt	<i>m</i> 22.75		
		251	300 watt	<i>m</i> 26.00		
		20	500 watt	<i>m</i> 29.00		
Elmira.....	2,672	190	100 watt	<i>m</i> 9.00	1,834.00	0.69
		8	200 watt	<i>m</i> 12.00		
		1	500 watt	<i>m</i> 28.00		
Elmvale.....		50	100 watt	<i>m</i> 13.00	650.00	**
Elmwood.....		23	150 watt	<i>m</i> 23.00	529.00	**
Elora.....	1,152	81	100 watt	<i>m</i> 14.00	1,674.00	1.45
		27	200 watt	<i>m</i> 20.00		
Embro.....	436	56	100 watt	<i>m</i> 12.00	676.00	1.55
Erieau.....	273	21	100 watt	<i>m</i> 18.00	369.00	1.35
Essex.....	1,786	121	60 watt	<i>m</i> 10.00	3,046.99	1.71
		30	100 watt	<i>m</i> 10.00		
		4	200 watt	<i>m</i> 22.00		
		61	300 watt	<i>m</i> 24.00		
		1	500 watt	<i>m</i> 30.00		
Etobicoke Twp..		996	100 watt	<i>m</i> 13.50	13,443.87	**
		22	100 watt	<i>m</i> 18.00		
Exeter.....	1,606	167	100 watt	<i>m</i> 9.50	1,995.25	1.24
		3	100 watt	<i>m</i>		
		22	(Park lts.) 200 watt	<i>m</i> 9.50 18.00		
Fergus.....	2,560	153	100 watt	<i>m</i> 14.00	2,714.31	1.06
		37	150 watt	<i>m</i> 16.50		
Finch.....	393	38	100 watt	<i>m</i> 15.00	570.00	1.45
Flesherton.....	488	53	100 watt	<i>m</i> 11.00	621.00	1.27
		1	300 watt	<i>m</i> 26.00		
		2	60 watt	<i>m</i> 6.00		
Fonthill.....	872	71	100 watt	<i>m</i> 15.00	1,065.00	1.22
Forest.....	1,487	131	60 watt	<i>m</i> 7.00	2,321.00	1.56
		123	100 watt	<i>m</i> 11.00		
			Station platform	<i>m</i> 51.00		
Fort William.....	24,709	398	150 c.p.	<i>s</i> 8.00	17,293.91	0.70
		16	400 c.p.	<i>s</i> 18.00		
		80	600 c.p.	<i>s</i> 28.00		
		201	1,000 c.p.	<i>s</i> 38.00		
		176	100 watt	<i>m</i> 8.00		
		13	300 watt	<i>m</i> 23.00		

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Galt.....	14,057	{ 972	100 c.p. s	9.00	20,594.00	1.46
		{ 316	75 watt m	13.00		
		{ 100	100 watt m	12.00		
		{ 18	150 watt m	16.00		
		{ 152	150 watt m	25.00		
		{ 70	300 watt m	35.00		
Georgetown.....	2,224	{ 174	100 watt m	11.00	2,146.00	*
		{ 16	100 watt m	13.00		
		{ 1	300 watt m	19.00		
Glencoe.....	827	{ 112	100 watt m	14.00	1,945.64	2.35
		{ 19	200 watt m	20.00		
Goderich.....	4,394	{ 325	100 c.p. s	9.00	3,791.50	0.86
		{ 8	100 watt m	15.00		
		{ 8	200 watt m	25.00		
		{ 16	3 lt. stds. m	35.00		
Grand Valley.....	589	52	100 watt m	18.00	936.00	1.59
Granton.....		37	100 watt m	10.00	370.00	**
Gravenhurst.....	1,956	{ 135	80 c.p. s	10.00	2,179.00	1.11
		{ 7	100 c.p. s	11.00		
		{ 30	100 watt m	10.00		
		{ 16	300 watt m	35.00		
Guelph.....	21,048	{ 12	50 watt m	4.00	18,549.86	0.88
		{ 6	50 watt m	4.00		
		{ 1,365	100 watt m	10.00		
		{ 172	200 watt m	12.50		
		{ 35	300 watt m	18.75		
		{ 9	500 watt m	25.00		
		{ 53	500 watt (220v) m	34.00		
		{ 1	Airport beacon	60.00		
Hagersville.....	1,355	{ 116	100 watt m	12.00	1,732.00	1.28
		{ 17	300 watt m	20.00		
Hamilton.....	153,504	{ 10	40 watt m	4.50	123,817.93	0.81
		{ 96	50 watt m	6.00		
		{ 8,319	100 watt m	7.50		
		{ 1,170	200 watt m	11.00		
		{ 8	300 watt m	18.00		
		{ 28	300 watt m	26.00		
		{ 77	300 watt m	32.00		
		{ 25	300 watt m	34.00		
		{ 480	500 watt m	32.00		
		{ 605	500 watt m	37.00		
		{ 65	750 watt m	55.00		
		{ 3	Danger sig. stds.	28.00		
		{ 2	Danger sig. stds.	70.00		

\*\*Population not shown in Government statistics. s Series system. m Multiple system.

††Part cost paid direct in form of debenture charges.

\*Includes Glen Williams.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Hanover.....	3,039	{ 91 16 5 12	{ 150 c.p. 250 c.p. 100 watt 200 watt	{ s s m m 23.00 28.00 23.00 28.00	2,992.00	0.98
Harriston.....	1,321	{ 82 5 29	{ 150 c.p. 100 watt 200 watt	{ s m m 12.00 12.00 15.00	1,479.00	1.12
Harrow.....	928	{ 1 78	{ 100 watt 200 watt	{ m m 12.00 16.50	1,288.63	1.39
Hastings.....	753	{ 60 3 2	{ 100 watt 200 watt 100 watt (6 mos.)	{ m m m 20.00 25.00 39.00	1,290.34	1.71
Havelock.....	1,249	{ 63 20	{ 100 c.p. 250 c.p.	{ s s 16.00 25.00	1,508.00	1.21
Hensall.....	697	83	100 watt	m 12.00	996.00	1.43
Hespeler.....	2,798	{ 91 34 15 51 10 7	{ 150 c.p. 250 c.p. 400 c.p. 150 watt 300 watt 300 watt	{ s s s m m m 11.00 16.00 30.00 10.00 21.50 35.00	2,965.00	1.06
Highgate.....	343	{ 40 6 1	{ 100 watt 200 watt 300 watt	{ m m m 11.00 17.00 25.00	570.00	1.66
Holstein.....		14	100 watt	m 25.00	350.00	**
Humberstone.....	2,442	{ 104 7	{ 100 watt 200 watt	{ m m 12.00 17.00	1,367.00	0.56
Huntsville.....	2,563	{ 47 26 28 68 109	{ 100 c.p. 150 c.p. 250 c.p. 75 watt 75 watt	{ s s s m m 14.00 18.00 22.00 10.00 42.00 per kw.)	2,714.35	1.06
Ingersoll.....	5,104	{ 13 310 2 2 26 11	{ 100 c.p. 100 c.p. 600 c.p. 1,000 c.p. 1,000 c.p. 300 watt	{ s s s s s m 5.50 11.00 28.00 25.00 35.00 30.00	4,851.48	††

\*\*Population not shown in Government statistics. s Series system. m Multiple system.

††Part cost paid direct in form of debenture charges.



## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Jarvis.....	531	70	100 watt <i>m</i>	\$ c. 12.00	\$ c. 840.00	\$ c. 1.58
Kemptville.....	1,227	{ 90 1	100 watt <i>m</i> 250 w. Fl. light <i>m</i>	20.00 30.00	1,830.00	1.49
Kincardine.....	2,511	{ 151 20 36 36 1 1	150 c.p. <i>s</i> 100 watt <i>m</i> 100 w. (5 mos.) <i>m</i> 200 w. (7 mos.) <i>m</i> 1,000 w. (3 mos.) <i>m</i> 1,000 w. (6 mos.) <i>m</i>	20.00 15.00 15.00 25.00 85.00 85.00	4,133.75	1.65
Kingston.....	23,725	{ 98 273 250	100 c.p. <i>s</i> 600 c.p. <i>s</i> 600 c.p. <i>s</i>	12.00 35.00 46.00	22,065.86	0.93
Kingsville.....	2,354	{ 112 25 122	150 c.p. <i>s</i> 250 c.p. <i>s</i> 100 watt <i>m</i>	11.00 16.00 11.00	2,994.46	††
Kirkfield.....		23	100 watt <i>m</i>	20.00	460.00	**
Kitchener.....	31,252	{ 47 2,036 83 18 201 430 50 116	16 c.p. <i>s</i> 80 c.p. <i>s</i> 250 c.p. <i>s</i> 1,000 c.p. <i>s</i> 100 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i> 500 watt <i>m</i>	7.00 9.00 13.00 25.00 9.00 15.00 17.50 25.00	32,018.76	††
Lakefield.....	1,387	109	100 watt <i>m</i>	17.00	1,845.87	1.33
Lambeth.....		36	100 watt <i>m</i>	12.00	432.00	**
Lanark.....	623	37	100 watt <i>m</i>	16.00	592.00	0.95
Lancaster.....	575	41	100 watt <i>m</i>	36.50	1,496.50	2.60
La Salle.....	600	66	100 watt <i>m</i>	15.00	495.00	0.83
Leamington.....	5,004	{ 175 4 192	250 c.p. <i>s</i> 400 c.p. <i>s</i> 100 watt <i>m</i>	16.00 20.00 15.00	5,691.85	††
Lindsay.....	6,963	{ 410 27	100 c.p. <i>s</i> 1,000 c.p. <i>s</i>	15.00 70.00	7,977.46	1.15
Listowel.....	2,775	{ 162 118 8 26 3	60 watt <i>m</i> 100 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i> 500 watt <i>m</i>	9.00 11.00 25.00 30.00 35.00	3,840.60	1.38

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Part cost paid direct in form of debenture charges.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
London.....	73,726	16	100 c.p.	s 10.00	54,217.56	††
		8	150 c.p.	s 10.00		
		1,938	150 c.p.	s 11.00		
		109	400 c.p.	s 18.00		
		305	400 c.p.	s 24.00		
		276	600 c.p.	s 30.00		
		116	100 watt	m 10.00		
		25	100 watt	m 14.00		
		12	200 watt	m 9.34		
		27	200 watt	m 14.00		
		488	300 watt	m 18.00		
		42	300 watt	m 20.00		
		11	500 watt	m 25.00		
		12	500 watt	m 40.00		
London Twp.....		56	600 watt	m 40.00	832.50	**
		2	600 watt	m 5.00		
		68	100 watt	m 12.00	3,682.98	1.04
		1	200 watt	m 16.50		
Long Branch.....	3,550	265	100 watt	m 13.00	3,682.98	1.04
		27	Empty sockets	m 9.50		
Lucan.....	528	71	100 watt	m 14.00	994.00	1.88
Lucknow.....	964	72	100 watt	m 21.00	1,512.00	1.57
Lynden.....		43	100 watt	m 10.00	430.00	**
Madoc.....	1,067	368	25 watt	m 4.00	1,500.00	1.41
		62	100 watt	m 6.00		
		1	300 watt	m 12.00		
Markdale.....	792	90	150 c.p.	s 10.00	900.00	1.14
Markham.....	1,060	113	100 watt	m 12.00	1,356.00	1.28
Marmora.....	1,015	44	75 watt	m 15.00	1,450.00	1.43
		24	100 watt	m 17.00		
		19	150 watt	m 20.00		
Martintown.....		15	100 watt	m 20.00	300.00	**
Maxville.....	725	65	100 c.p.	s 22.00	1,430.04	1.97
Meaford.....	2,687	180	150 c.p.	s 12.00	3,196.00	1.19
		28	100 watt	m 12.00		
		35	200 watt	m 20.00		
Merlin.....		43	100 watt	m 16.00	688.00	**
Merritton.....	2,487	303	100 watt	m 9.00	3,352.00	1.35
		25	300 watt	m 25.00		

\*\*Population not shown in Government statistics. s Series system. m Multiple system.

††Part cost paid direct in form of debenture charges.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Midland.....	6,925	{ 327 52 30 36 35	150 c.p. 100 watt 300 watt 500 watt 100 w. (Park)	s m m m m	10.00 10.00 22.00 40.00 7.50	6,147.50	0.89
Mildmay.....	714	{ 44 11	100 watt 150 watt	m m	14.00 21.00	847.00	1.19
Milton.....	1,804	{ 205 3	100 watt 300 watt	m m	9.50 30.00	2,033.81	1.13
Milverton.....	1,002	{ 95 12	100 watt 200 watt	m m	9.00 12.00	999.00	1.00
Mimico.....	6,696	{ 330 91 47	100 watt 200 watt 300 watt	m m m	12.00 20.00 26.00	7,002.00	1.05
Mitchell.....	1,497	232	150 c.p.	s	9.00	2,088.00	1.40
Moorefield.....		25	100 watt	m	15.00	375.00	**
Mount Brydges.....		52	100 watt	m	10.00	520.00	**
Mount Forest....	1,839	{ 118 39 35	150 c.p. 250 c.p. 100 watt	s s m	11.00 14.00 11.00	2,220.75	1.21
Napanee.....	2,827	{ 148 2 2 5 40 22	100 c.p. 250 c.p. 250 watt 300 watt 300 watt 400 watt	s s m m m m	16.00 37.00 37.00 37.00 32.00 37.00	4,744.93	1.68
Neustadt.....	458	39	150 c.p.	s	25.00	975.00	2.13
Newbury.....	256	48	100 watt	m	15.00	720.00	2.81
New Hamburg..	1,457	{ 165 61	100 watt 200 watt	m m	9.00 12.00	2,202.00	1.51
New Toronto.....	7,484	{ 221 17 15 28 14 131 3	75 watt 150 watt 200 watt 300 watt 300 watt 500 watt Intersection lts.	m m m m m m m	13.00 15.50 17.00 21.00 22.00 33.00 29.00	8,697.48	1.16
Niagara Falls.....	18,193	{ 812 3 60 234 197 4	100 c.p. 250 c.p. 600 c.p. 600 c.p. 1,000 c.p. 100 watt	s s s s s m	11.00 13.00 18.00 40.00 45.00 11.00	28,355.65	1.56

\*\*Population not shown in Government statistics. s Series system. m Multiple system.



## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Niagara-on-the-Lake.....	1,614	{ 219 25	100 watt 200 watt	<i>m</i> <i>m</i>	\$ c. 11.00 18.00	2,859.00	1.77
Nipigon.....		34	100 watt	<i>m</i>	15.00	510.00	**
North York Twp.....		{ 81 20 32 12 10 65 1 2 1 1	100 watt 100 watt 100 watt 100 watt 100 watt 200 watt 400 watt 1,000 watt Safety light Police sign	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	12.00 13.00 13.50 15.00 16.50 23.00 31.00 65.00 30.00 12.00	3,707.32	**
Norwich.....	1,196	{ 114 28	100 watt 400 watt	<i>m</i> <i>m</i>	10.00 35.00	2,120.00	1.77
Norwood.....	868	{ 79 6 1	100 c.p. 100 c.p. 100 c.p.	<i>s</i> <i>s</i> <i>s</i>	18.00 20.00 27.00	1,569.00	1.81
Oil Springs.....	462	{ 40 1	100 watt 300 watt	<i>m</i> <i>m</i>	18.00 60.00	750.00	1.62
Omemee.....	551	{ 48 2 10	100 c.p. 100 watt 250 watt	<i>s</i> <i>m</i> <i>m</i>	14.00 12.50 28.00	956.40	1.74
Orangeville.....	2,785	{ 99 48 38	150 c.p. 250 c.p. 300 watt	<i>s</i> <i>s</i> <i>m</i>	13.00 20.00 30.00	3,387.00	1.22
Oshawa.....	22,444	{ 839 1 40 109 30	100 c.p. 1,000 c.p. 100 watt 150 watt 200 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i>	10.00 27.00 11.00 12.00 16.00	10,611.72	0.47
Ottawa.....	132,551	{ 661 368 821 836 59 2,910 30	100 c.p. (Driveway) 100 c.p. 400 c.p. 600 c.p. Arcs 100 watt (white way) 100 watt (residential)	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i>	6.00 7.00 25.00 35.00 45.00 48c. per ft. 5½c. per ft.	73,796.29	0.56
Otterville.....		{ 54 12	100 watt 200 watt	<i>m</i> <i>m</i>	11.00 16.00	786.00	**
Owen Sound.....	12,894	{ 429 338 12 39	100 c.p. 250 c.p. 400 c.p. 500 c.p.	<i>s</i> <i>s</i> <i>s</i> <i>s</i>	13.00 16.00 23.00 37.00	12,832.96	0.99

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Paisley.....	713	88	100 watt	m	\$ c. 16.00	\$ c. 1,408.00	\$ c. 1.97
Palmerston.....	1,600	{ 82	80 c.p.	s	9.00	1,941.57	1.21
		{ 17	400 c.p.	s	25.00		
		{ 10	60 watt	m	9.00		
		{ 10	100 watt	m	10.00		
		{ 9	150 watt	m	10.00		
		{ 6	250 watt	m	25.00		
Paris.....	4,297	{ 12	300 watt	m	25.00	5,450.50	1.27
		{ 2	500 watt	m	35.00		
		{ 463	100 c.p.	s	8.50		
		{ 10	400 c.p.	s	28.00		
		{ 25	500 c.p.	s	35.00		
		{ 2	60 watt	m	7.00		
Parkhill.....	1,021	{ 2	100 watt	m	9.00	1,437.00	1.41
		{ 8	500 watt	m	35.00		
		{ 78	100 watt	m	14.00		
Penetanguishene	4,352	{ 15	200 watt	m	23.00	2,149.00	0.49
		{ 184	100 c.p.	s	11.00		
		{ 3	200 watt	m	15.00		
Perth.....	4,052	{ 4	300 watt	m	20.00	2,066.00	0.51
		{ 70	100 c.p.	s	15.00		
		{ 12	250 c.p.	s	25.00		
		{ 7	400 c.p.	s	28.00		
Peterborough.....	22,850	{ 13	600 c.p.	s	40.00	21,637.68	0.95
		{ 215	60 watt	m	12.00		
		{ 362	100 watt	m	13.00		
		{ 536	300 watt	m	20.00		
Petrolia.....	2,715	{ 81	300 watt	m	45.00	2,652.00	0.98
		{ 145	150 c.p.	s	12.00		
Picton.....	3,313	{ 24	600 c.p.	s	38.00	4,364.04	1.32
		{ 222	100 c.p.	s	12.00		
Plattsville.....		{ 85	250 c.p.	s	20.00	408.00	**
		{ 34	100 watt	m	12.00		
Point Edward....	1,336	{ 100	150 c.p.	s	13.00	1,593.48	1.19
		{ 15	250 c.p.	s	20.00		
Port Arthur.....	20,064	{ 2,709	100 watt	m	5.00	18,984.96	0.95
		{ 232	300 watt	m	10.00		
		{ 208	500 watt	m	15.00		
Port Colborne....	5,417	{ 15	400 c.p.	s	23.00	7,740.14	††
		{ 78	600 c.p.	s	25.00		
		{ 127	100 watt	m	12.00		
		{ 34	100 watt	m	14.00		
Port Credit.....	1,650	271	200 watt	m	18.00	2,710.00	1.64

\*\*Population not shown in Government statistics. s Series system. m Multiple system.

††Part cost paid direct in form of debenture charges.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Port Dalhousie..	1,495	{ 129 2	100 watt 200 watt	m m	\$ c. 12.50 15.00	\$ c. 1,636.25	\$ c. 1.09
Port Dover.....	1,692	{ 198 25 16 3 1	100 watt 100 watt (summer) 300 watt 300 watt (summer) Decorative str.	m m m m m	12.00 7.00 20.00 10.00 200.00	3,101.00	1.83
Port Elgin.....	1,351	{ 104 13 21 26	100 watt 100 watt (4 mos.) 100 watt (3 mos.) 200 watt	m m m m	14.00 14.00 14.00 22.00	2,162.16	1.60
Port Hope.....	4,520	385	80 c.p.	s	12.00	4,620.00	1.02
Port McNicoll...	880	{ 47 17	100 watt 200 watt	m m	12.50 20.00	927.50	1.05
Port Perry.....	1,104	99	100 watt	m	15.00	1,471.25	1.33
Port Rowan.....	692	{ 48 5	100 watt 100 watt (9 mos.)	m m	24.00 24.00	1,242.00	1.79
Port Stanley.....	742	186	100 watt	m	11.00	2,045.63	2.76
Prescott.....	3,083	{ 169 105	100 watt 200 w. 2 lt. std.	m m	10.00 17.00	3,475.00	1.13
Preston.....	6,189	{ 347 9 40 6	150 c.p. 250 watt 500 watt 5 lt. standards	s m m m	10.00 18.00 30.00 30.00	5,004.09	0.81
Priceville.....		14	100 watt	m	40.00	560.00	**
Princeton.....		37	100 watt	m	13.00	481.00	**
Queenston.....		19	100 watt	m	16.00	304.42	**
Richmond.....	413	26	100 watt	m	20.00	520.04	1.26
Richmond Hill..	1,299	{ 99 17 6	75 watt 100 watt 200 watt	m m m	11.00 12.00 16.00	1,389.00	1.07
Ridgetown.....	1,914	{ 187 1 73 2 19	150 c.p. 1,000 c.p. 100 watt 200 watt 500 watt	s s m m m	9.00 40.00 9.00 30.00 36.00	3,122.50	††
Ripley.....	465	{ 43 6	100 watt 200 watt	m m	20.00 35.00	1,070.00	2.30
Riverside.....	4,975	{ 95 24	100 watt 150 watt	m m	11.00 14.50	2,499.96	0.50

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## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Rockwood.....		85	100 watt	<i>m</i>	\$ c. 9.00	\$ c. 765.00	\$ c. **
Rodney.....	748	{ 73 14	100 watt 200 watt	<i>m</i> <i>m</i>	10.00 18.00	982.02	1.31
Rosseau.....	286	35	100 watt	<i>m</i>	35.40	1,239.00	4.33
Russell.....		46	100 watt	<i>m</i>	16.00	740.00	**
St. Catharines....	26,161	2,704	100 watt	<i>m</i>	7.50	20,561.66	††
St. George.....		39	100 watt	<i>m</i>	9.50	370.50	**
St. Jacobs.....		46	100 watt	<i>m</i>	10.00	460.00	**
St. Marys.....	4,023	{ 225 106 19 32	100 c.p. 250 c.p. 150 watt 300 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i>	10.00 14.00 12.00 22.00	4,660.16	1.16
St. Thomas.....	16,072	{ 1,078 27 114 1 22 6 34 5	100 c.p. 250 c.p. 600 c.p. 600 c.p. 300 watt 60 watt 100 watt (park) 60 watt (park)	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	9.00 13.00 34.00 32.00 22.00 4.50 5.00 3.00	14,656.97	††
Sandwich.....	10,559	{ 291 316 14 40 13 10 31	100 c.p. 100 c.p. 250 c.p. 400 c.p. 400 c.p. 100 watt 100 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i>	12.00 13.00 21.00 26.00 28.00 12.00 13.00	8,458.14	††
Sarnia.....	17,620	{ 1,026 56 65 79 13 3 8 14	150 c.p. 250 c.p. 400 c.p. 600 c.p. 600 c.p. 100 watt 150 watt 300 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i>	12.00 16.50 22.00 35.00 45.00 12.00 16.50 32.00	18,623.73	††
Scarboro Twp....		{ 10 212 2 19 2 413 25 7 10 153 154	100 c.p. (empty) 100 c.p. 250 c.p. 40 watt 60 watt 100 watt 100 w. (empty) 200 watt 200 watt 300 watt 300 w. (empty)	<i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	9.00 12.00 17.00 12.00 18.00 12.00 9.00 17.00 21.00 24.00 14.50	14,346.96	**

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Part cost paid direct in form of debenture charges.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Seaforth.....	1,697	{ 65 58 20	80 c.p. 100 c.p. 300 watt	<i>s</i> <i>s</i> <i>m</i> 10.00 11.00 25.00	1,788.00	1.05
Shelburne.....	1,121	96	150 c.p.	<i>s</i> 11.00	1,056.00	0.94
Simcoe.....	5,174	{ 273 27 7 8 6 2 1	100 c.p. 1,000 c.p. 150 watt 200 watt 200 watt 500 watt 1,000 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> 11.00 40.00 11.00 15.00 24.00 53.00 60.00	4,514.83	††
Smiths Falls.....	7,502	{ 18 105 1 86 168	60 watt 100 watt 200 watt 300 watt 300 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> 9.50 18.00 25.00 13.00 25.00	7,665.00	1.02
Southampton.....	1,356	{ 110 4 32 39 String	100 watt 100 w. (9 mos.) 250 watt 60 w. (3 mos.) Decorative lts.	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> 13.00 13.00 21.00 12.00 36.00	2,294.00	1.69
Springfield.....	372	51	100 watt	<i>m</i> 11.00	552.75	1.49
Stamford Twp.....		853	100 watt	<i>m</i> 9.00	7,656.75	**
Stayner.....	995	{ 75 18	150 c.p. 200 watt	<i>s</i> <i>m</i> 14.00 20.00	1,410.00	1.42
Stirling.....	949	{ 87 5 15	100 c.p. 150 watt 500 watt	<i>s</i> <i>m</i> <i>m</i> 12.00 12.00 33.00	1,453.25	1.53
Stouffville.....	1,174	126	100 watt	<i>m</i> 13.00	1,638.00	1.40
Stratford.....	18,673	{ 864 74 116 6 63 4 4	100 c.p. 600 c.p. 600 c.p. 600 c.p. 1,000 c.p. 100 watt 500 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> 10.00 25.00 30.00 35.00 34.00 10.00 34.00	16,458.81	0.88
Strathroy.....	2,887	{ 298 21 34	100 c.p. 250 c.p. 300 watt	<i>s</i> <i>s</i> <i>m</i> 9.00 15.00 31.00	4,050.96	1.40
Sunderland.....		{ 29 4	100 watt 500 watt	<i>m</i> <i>m</i> 20.00 35.00	720.00	**
Sutton.....	806	{ 118 32 15	100 watt 100 w. (3 mos.) 200 watt	<i>m</i> <i>m</i> <i>m</i> 13.00 13.00 17.00	1,886.50	2.34

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.

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## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Tara.....	505	{ 67 3	100 watt 100 watt	<i>m</i> <i>m</i>	16.00 18.00	1,126.00	2.23
Tavistock.....	1,050	{ 81 37	100 watt 200 watt	<i>m</i> <i>m</i>	10.00 12.00	1,225.66	1.17
Tecumseh.....	2,423	{ 8 60	400 c.p. 100 watt	<i>s</i> <i>m</i>	21.00 12.00	960.00	††
Teeswater.....	796	{ 38 20	150 c.p. 300 c.p.	<i>s</i> <i>s</i>	19.00 34.00	1,402.00	1.76
Thamesford.....		47	100 watt	<i>m</i>	11.00	517.00	**
Thamesville.....	763	{ 68 33 7	100 watt 200 watt 200 watt	<i>m</i> <i>m</i> <i>m</i>	9.00 14.00 18.00	1,193.52	1.56
Thedford.....	572	69	100 watt	<i>m</i>	15.00	1,035.00	1.81
Thorndale.....		32	100 watt	<i>m</i>	12.00	384.00	**
Thornton.....		22	100 watt	<i>m</i>	40.00	880.00	**
Thorold.....	4,945	{ 397 40 28 2	75 watt 100 watt 200 watt 300 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i>	7.50 8.00 12.00 15.00	3,663.50	0.74
Tilbury.....	1,897	{ 101 25	100 watt 200 watt	<i>m</i> <i>m</i>	11.00 19.50	1,591.20	0.84
Tillsonburg.....	3,380	{ 264 1 8 44	100 c.p. 250 c.p. 300 watt 500 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i>	8.50 13.00 32.00 42.00	4,379.28	1.30
Toronto.....	626,674	{ 46,320 3,278 67 1,415 160 5 344 88 391 75	100 watt 200 watt 250 watt 300 watt 500 watt 1,000 watt 100 w. 5-lt. stds. 500 w. 1-lt. std. 300 w. 1-lt. std. 500 w. 1-lt. std.	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	8.00-10.00 18.00-23.00 20.00 28.00-30.00 45.00 90.00 47.50 47.50 50.00 52.50	553,936.40	0.88
Toronto Twp. ....		{ 411 1	100 watt Intersection Lt.	<i>m</i> <i>m</i>	12.00 43.00	4,975.20	**
Tottenham.....	556	49	150 c.p.	<i>s</i>	25.00	1,225.08	2.20
Trenton.....	6,288	{ 49 309 1	600 c.p. 100 watt 500 watt	<i>s</i> <i>m</i> <i>m</i>	75.00 14.00 75.00	8,076.00	1.28
Tweed.....	1,287	125	100 c.p.	<i>s</i>	15.00	1,875.00	1.46

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## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Uxbridge.....	1,512	{ 129 5 1	100 watt 100 w. (6 mos.) 200 watt	<i>m</i> <i>m</i> <i>m</i>	13.00 10.00 16.00	1,743.02	1.15
Victoria Harbor	1,126	78	100 watt	<i>m</i>	9.00	702.00	0.62
Walkerton.....	2,370	{ 116 38 1 String	150 c.p. 250 c.p. 50 watt Decorative lts.	<i>s</i> <i>s</i> <i>m</i>	12.50 24.50 6.00 180.00	2,402.04	1.01
Walkerville.....	10,458	{ 33 138 332 63 110	600 c.p. 100 watt 150 watt 200 watt 300 watt	<i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	42.00 8.00 11.00 13.00 18.00	11,640.96	††
Wallaceburg.....	4,457	{ 188 12 50	150 c.p. 400 c.p. 300 watt	<i>s</i> <i>s</i> <i>m</i>	12.00 22.00 33.00	4,168.00	0.94
Wardsville.....	240	36	100 watt	<i>m</i>	20.00	720.00	3.00
Warkworth.....		{ 34 2	100 watt 200 watt	<i>m</i> <i>m</i>	18.00 30.00	672.00	**
Waterdown.....	919	{ 72 8	100 watt 200 watt	<i>m</i> <i>m</i>	11.00 17.50	932.00	1.01
Waterford.....	1,213	{ 157 9 3 4	100 watt 200 watt 500 watt 100 watt (twp.)	<i>m</i> <i>m</i> <i>m</i> <i>m</i>	8.00 15.00 25.00 12.00	1,514.00	1.25
Waterloo.....	8,714	{ 342 120 93 5 18 3 9 10 44	80 c.p. 100 c.p. 150 watt 200 watt 300 watt 500 watt 500 watt 300 watt 450 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	8.00 10.00 10.00 12.00 21.00 30.00 35.00 25.00 36.00	7,514.42	0.86
Watford.....	941	{ 90 11	100 watt 200 watt	<i>m</i> <i>m</i>	12.50 20.00	1,344.96	1.43
Waubauskene.....		45	100 watt	<i>m</i>	9.00	405.00	**
Welland.....	10,655	{ 178 14 423 30 4 6 6	600 c.p. 600 c.p. 100 watt 200 watt 500 watt 300 watt 300 w. (empty)	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	30.00 30.00 11.00 18.00 28.00 30.00 30.00	10,864.34	††
Wellesley.....		60	100 watt	<i>m</i>	12.00	720.00	**

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## STATEMENT "C"—Concluded

Street Lighting Installation in Hydro Municipalities, December 31, 1934, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Wellington.....	920	{ 46 32	100 c.p. 150 c.p.	s s	12.00 19.00	1,160.04	1.26
West Lorne.....	776	{ 83 10	100 watt 200 watt	m m	10.00 18.00	1,010.00	1.30
Weston.....	4,828	{ 459 1 113 20 5 2	100 c.p. 250 c.p. 600 c.p. stds. 300 watt 5-lt. standards Signs	s s s m m m	7.50 10.00 30.00 11.00 21.00 110.00	7,606.38	1.58
Westport.....	738	{ 2 59	50 watt 100 watt	m m	15.00 23.00	1,383.50	1.87
Wheatley.....	754	{ 63 37	100 watt 150 watt	m m	12.00 15.00	1,311.00	1.74
Whitby.....	5,297	{ 123 72 165 3	80 c.p. 100 c.p. 100 watt 500 watt	s s m m	10.00 11.00 8.50 12.50	3,695.61	0.70
Warton.....	1,815	{ 100 25	100 watt 200 watt	m m	16.00 28.00	2,300.00	1.27
Williamsburg.....		16	100 watt	m	15.00	240.00	**
Winchester.....	930	118	100 watt	m	9.00	1,062.00	1.14
Windermere.....	130	13	100 watt	m	35.00	455.00	3.50
Windsor.....	61,173	{ 2,892 11 984 804 2	100 c.p. 250 c.p. 400 c.p. 600 c.p. 1,000 c.p.	s s s s s	11.50 17.50 27.50 36.00 46.00	76,078.97	††
Wingham.....	1,923	{ 101 25 22	150 c.p. 250 c.p. 200 watt	s s m	19.00 32.00 32.00	3,423.00	1.78
Woodbridge.....	740	90	100 watt	m	10.00	900.00	1.22
Woodstock.....	11,007	{ 547 12 91 25 75 1	100 c.p. 250 c.p. 75 watt 150 watt 300 watt 250 watt	s s m m m m	8.00 20.00 8.00 12.00 32.00 12.00	8,064.05	0.73
Woodville.....	420	{ 36 5	100 watt 200 watt	m m	12.00 20.00	532.00	1.27
Wyoming.....	505	51	100 watt	m	15.00	765.00	1.51
Zurich.....		63	100 watt	m	11.00	693.00	**

\*\*Population not shown in Government statistics. s Series system. m Multiple system.

††Part cost paid direct in the form of debenture charges.

## STATEMENT "D"

(pages 402 to 419)

Statistics Relating to the Supply of Electrical Energy to Consumers  
by Individual Ontario Municipalities Served by The  
Hydro-Electric Power Commission  
for the year 1934

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## STATEMENT "E"

(pages 420 to 435)

Cost of Power to Municipalities and Rates to Consumers for  
Domestic Service—Commercial Light Service— Power Service  
in Urban Municipalities Served by The  
Hydro-Electric Power Commission  
for the year 1934



## STATEMENT "D"

### Statistics Relating to the Supply of Electrical Energy to Consumers in Urban Municipalities Served by The Hydro-Electric Power Commission

Regarding the results of Hydro operation from the standpoint of the consumers, the following tabulation gives much useful and interesting information. For each main class of service in each urban municipal utility receiving power at cost from the Commission, Statement "D" lists the revenue, the consumption and the number of consumers, together with unit average costs and consumptions and other pertinent data.

The policy and practice of the Commission has been, and is, to make as widespread and beneficial a distribution of electrical energy as possible, and to extend to every community that can economically be reached by transmission lines, the benefit of electrical service. Even where, in certain localities, by reason of the distance from a source of supply or on account of the small quantity of power required by the municipality, the cost per horsepower to the municipality—and, consequently, the cost of service to the consumer—must unavoidably be higher than in more favourably situated communities, service has not been withheld when the consumers were able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D," respecting the average cost to the consumer. It will be observed that the total amount of the energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D," and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 40 horsepower. The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

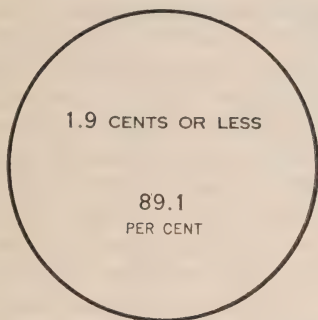
It should be kept in mind that the revenues reported in Statement "D," and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and include, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should also be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give misleading results. The average costs per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

**COST OF ELECTRICAL SERVICE**  
**IN MUNICIPALITIES SERVED BY THE**  
**HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO**

**DOMESTIC SERVICE**

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



2.0 TO 3.9  
CENTS



4.0 TO 5.9  
CENTS

0.4  
PER CENT



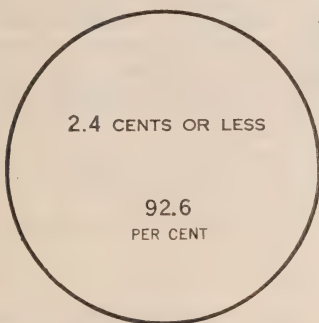
6 CENTS  
OR MORE

0.1  
PER CENT



**COMMERCIAL LIGHT SERVICE**

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



2.5 TO 3.9  
CENTS

5.5  
PER CENT



4.0 TO 5.9  
CENTS

1.8  
PER CENT



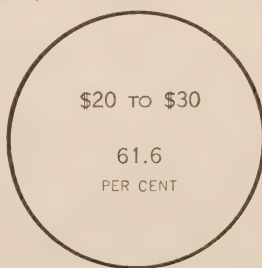
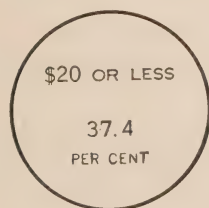
6 CENTS  
OR MORE

0.1  
PER CENT



**POWER SERVICE SUPPLIED BY MUNICIPALITIES**

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE AGGREGATE HORSEPOWER SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER HORSEPOWER PER YEAR:



\$30 TO \$40    \$40 OR MORE

0.9  
PER CENT



0.1  
PER CENT



With respect to domestic service, for example, instances will be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 100 per cent. Such variations are due principally to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

In the case of power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in horsepower—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which, in conjunction with the power, determines the energy consumption, as measured in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per horsepower to the consumer will vary in accordance with the consumers' average number of hours' use of the power per month. A greater average energy consumption per horsepower increases the average cost per horsepower and decreases the average cost per kilowatt-hour, to the consumer, and *vice versa*.\*

\*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service, and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

*In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community, a lower "average revenue per kilowatt-hour."*

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A			CASE B		
	Higher rates and lower revenues per kilowatt-hour			Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
	kw-hr.	cents	\$	kw-hr.	cents	\$
Residence.....	1,000,000	4	40,000	3,000,000	3	90,000
Power.....	9,000,000	1	90,000	7,000,000	0.75	52,500
Total.....	10,000,000	.....	130,000	10,000,000	.....	142,500
Average revenue.	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A the rates both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent less.

In this instance, the explanation lies in the *relative quantities* of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.



Although the derived statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil a function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for making comparisons. In researches respecting rates to consumers therefore the actual *rate schedules* of Statement "E" should be employed, and not statistics of average revenues per kilowatt-hour, as these are valueless for rate comparisons—and particularly so when all classifications of service are combined.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as set forth in Statement "E," or on the derived statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively, of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments from which service is received, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) towns of 2,000 to 10,000 population; or (iii) small towns (under 2,000 population), villages, and suburban areas in townships (which are comparable in respect of conditions of supply to the smaller towns and villages). The populations are also given, and the situation of any municipality with respect to transmission lines and power supplies may be ascertained by consulting the map at the end of the Report and the diagrams of stations in Section II.

A feature of the electrical service in Ontario municipalities served by the Hydro-Electric Power Commission is the strikingly large average annual consumption per domestic consumer. There are in all more than 200 Ontario municipalities where the average annual consumption per domestic consumer is in excess of 600 kilowatt-hours. Of the 83 cities and towns with populations of 2,000 or more—in which over 85 per cent of the domestic consumers of the undertaking are served—no less than 62 have an average annual consumption per domestic consumer in excess of 1,000 kilowatt-hours; of these, 26 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, and 12 have an average annual consumption per domestic consumer in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing service "at cost"; the rate schedules designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 1 cent and 1.25 cents (less 10 per cent) are in common use, and as a rule even where the higher initial rates per kilowatt-hour obtain, it is only necessary for the domestic consumer to reach a monthly charge of from \$2.00 to \$3.00 to obtain the benefit of a follow-up rate of 1.8 cents net. The cost of electric cooking is thus within reach of most of the domestic consumers in Ontario. Electric water heating is also encouraged by low flat rates for continuous heaters and by installation of equipment without capital cost to the consumer.

## STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service

## Group I—CITIES

Municipality	System	Popula- tion	Domestic service					Average monthly consumption kw-hr.	Average monthly bill \$ c.	Net cost per kw-hr. cts.
			Revenue \$ c.	Consumption kw-hr.	Number of con- sumers					
Belleville.....	E.O.	14,012	79,141.54	5,010,072	3,077			137	2.14	1.6
Brantford.....	Nia.	30,611	187,064.16	12,061,207	7,478			134	2.08	1.5
Chatham.....	Nia.	16,140	82,155.22	4,299,918	3,758			95	1.82	1.9
East Windsor.....	Nia.	14,009	77,289.70	4,049,156	2,981			113	2.20	1.9
Fort William.....	T.B.	24,709	200,719.69	27,073,689	5,244			430	3.19	0.7
Galt.....	Nia.	14,057	94,350.55	5,256,506	3,601			122	2.18	1.8
Guelph.....	Nia.	21,048	110,143.65	7,357,256	5,039			121	1.82	1.5
Hamilton.....	Nia.	153,504	928,800.72	63,291,430	37,330			141	2.07	1.4
Kingston.....	E.O.	23,725	115,553.94	7,036,017	5,645			108	1.71	1.6
Kitchener.....	Nia.	31,252	202,024.06	13,243,708	7,173			154	2.36	1.5
London.....	Nia.	73,726	518,046.47	42,587,464	16,632			213	2.60	1.2
Niagara Falls.....	Nia.	18,193	138,473.29	11,132,596	4,366			212	2.64	1.2
Oshawa.....	E.O.	22,444	160,650.53	6,740,979	5,956			94	2.25	2.4
Ottawa.....	E.O.	132,551	445,443.36	49,650,833	12,699			326	2.92	0.9
Owen Sound.....	G.B.	12,894	65,191.80	3,356,175	3,185			88	1.71	1.9
Peterborough.....	E.O.	22,850	126,242.49	7,601,648	5,353			118	1.97	1.7
Port Arthur.....	T.B.	20,064	108,984.20	9,183,258	4,318			177	2.10	1.2
St. Catharines.....	Nia.	26,161	143,939.49	10,977,219	6,414			142	1.87	1.3
St. Thomas.....	Nia.	16,072	115,912.65	8,830,120	4,060			181	2.38	1.3
Sarnia.....	Nia.	17,620	108,430.08	5,484,078	4,507			100	2.00	2.0
Stratford.....	Nia.	18,673	148,616.88	8,874,320	4,298			172	2.88	1.7
Toronto.....	Nia.	626,674	3,914,023.04	284,280,769	153,764			154	2.12	1.4
Toronto D.C. and 60 cycle†.....			26,834.73	897,264	557			134	4.01	3.0
Welland.....	Nia.	10,655	50,577.63	3,001,016	2,334			107	1.80	1.6
Windsor.....	Nia.	61,173	511,282.35	29,555,729	14,975			165	2.84	1.7
Woodstock.....	Nia.	11,007	73,880.16	5,111,346	2,934			145	2.10	1.4

†This,—with the exception of a relatively small D.C. power load,—is a special service not created by the Hydro-Electric Power Commission but acquired through the purchase of a privately owned company. It does not include Street Railway power.

## Group II—TOWNS

			\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Alexandria.....	E.O.	1,928	6,835.85	131,019	300	36	1.90	5.2
Amherstburg.....	Nia.	3,128	17,738.01	996,777	585	142	2.53	1.8
Barrie.....	G.B.	7,686	53,312.22	2,867,988	2,035	117	2.18	1.9
Bowmanville.....	E.O.	3,626	29,541.77	954,279	1,052	76	2.34	3.1
Brampton.....	Nia.	5,550	37,832.02	2,564,867	1,386	154	2.17	1.5
Brockville.....	E.O.	9,654	46,677.66	2,779,245	2,570	91	1.51	1.7
Carleton Place.....	E.O.	4,272	19,033.09	688,057	957	60	1.66	2.8
Cobourg.....	E.O.	5,556	31,488.12	1,069,061	1,202	74	2.18	2.9
Collingwood.....	G.B.	5,536	26,049.30	1,363,586	1,303	87	1.67	1.9
Dundas.....	Nia.	5,032	20,932.77	1,178,169	1,204	81	1.44	1.8
Dunnville.....	Nia.	3,632	13,511.72	580,050	800	60	1.40	2.3
Elmira.....	Nia.	2,672	15,591.71	741,962	509	122	2.55	2.1



“D”

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1934

Population, 10,000 or more

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
51,734.65	2,400,495	595	336	7.24	2.2	43,166.35			3,762
64,402.72	5,646,822	1,123	419	4.78	1.1	*127,189.62	139	6,399.0	8,740
68,862.83	3,591,016	719	416	7.98	1.9	54,944.65	109	2,808.0	4,586
16,524.78	727,230	272	223	5.06	2.2	38,214.17	30	1,621.2	3,283
63,797.04	2,963,785	869	284	6.12	2.2	65,922.65	94	3,208.0	6,207
41,016.94	2,035,906	488	346	7.00	2.0	86,207.74	116	4,377.0	4,205
50,712.24	3,300,211	768	358	5.50	1.5	117,562.46	139	6,710.0	5,946
361,025.55	27,432,406	5,064	450	5.90	1.3	1,675,192.55	1,262	96,863.8	43,656
76,595.44	3,936,063	864	380	7.39	1.9	105,669.41	144	5,229.4	6,653
99,769.21	5,816,668	975	497	8.53	1.7	240,187.75	265	12,010.9	8,413
192,613.53	13,585,267	2,820	401	5.69	1.4	381,147.03	477	18,987.0	19,929
54,104.91	4,436,471	665	556	6.78	1.2	71,334.33	87	4,086.4	5,118
61,297.29	2,269,110	510	371	10.02	2.7	180,539.76	101	8,188.5	6,567
165,972.08	9,952,717	1,348	615	10.26	1.4	81,911.92	200	5,022.0	14,247
37,669.05	1,855,656	574	270	5.47	2.0	39,406.15	118	2,311.0	3,877
63,611.56	3,233,526	803	346	6.60	2.0	85,362.23	155	4,538.8	6,311
53,537.70	3,656,646	712	428	6.27	1.5	742,149.46	99	33,537.2	5,129
49,059.69	3,412,335	716	397	5.70	1.4	98,942.44	153	6,388.5	7,283
48,424.75	3,202,590	639	418	6.31	1.5	54,334.50	76	3,097.4	4,775
46,211.30	2,512,053	615	340	6.26	1.8	172,385.67	84	6,011.0	5,206
53,007.40	2,340,188	618	316	7.15	2.3	63,430.65	131	2,662.6	5,047
2,857,588.67	124,376,477	24,331	426	9.78	2.3	3,286,096.85	4,291	138,930.0	182,386
126,124.02	3,149,162	950	277	11.06	4.0	427,435.18	851	15,194.0	2,358
28,858.24	1,756,355	446	328	5.39	1.6	64,653.25	83	3,210.0	2,863
227,281.25	12,780,753	2,236	477	8.59	1.8	189,263.73	310	8,603.3	17,521
37,413.41	2,315,060	453	426	6.88	1.6	53,549.44	89	3,361.6	3,476

NOTE.—The above group of 25 cities utilizes about 80 per cent of the power distributed by the Commission to Ontario municipalities.

\*Includes only 25-cycle data.

of Population 2,000 or more

\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
4,014.55	85,319	95	75	3.52	4.7	5,466.99	14	206.5	409
6,431.20	283,780	122	194	4.39	2.3	4,460.76	14	191.9	721
29,040.17	1,360,139	410	276	5.09	2.1	17,491.74	43	986.7	2,488
10,014.12	258,301	173	124	4.82	3.9	46,527.51	34	2,006.4	1,259
16,684.67	917,348	237	322	5.87	1.8	18,229.18	49	1,086.2	1,672
25,305.75	1,415,053	436	270	4.84	1.8	36,139.45	67	1,787.5	3,073
8,983.67	310,715	184	141	4.06	2.9	28,071.38	19	1,139.0	1,160
18,599.60	636,360	262	202	5.92	3.1	26,578.51	44	1,271.5	1,524
9,664.85	416,365	200	173	4.03	2.3	16,899.62	52	983.3	1,555
10,574.92	572,713	199	240	4.43	1.8	19,481.06	39	1,228.7	1,442
11,300.63	522,141	200	217	4.70	2.2	14,611.32	32	825.1	1,032
5,978.35	211,386	114	155	4.37	2.8	5,035.47	22	273.0	645



## STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service  
Group II—TOWNS

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c. cts.	
Fergus.....	Nia.	2,560	15,798.86	685,799	625	91	2.11	2.3
Georgetown.....	Nia.	2,224	14,474.82	701,537	675	87	1.79	2.1
Goderich.....	Nia.	4,394	30,584.44	1,376,061	1,170	98	2.18	2.2
Hanover.....	G.B.	3,039	19,142.23	790,365	716	92	2.23	2.4
Hespeler.....	Nia.	2,798	16,998.75	726,718	684	89	2.07	2.3
Humberstone.....	Nia.	2,442	8,593.12	337,341	520	53	1.38	2.5
Huntsville.....	G.B.	2,563	11,427.81	610,107	589	86	1.62	1.9
Ingersoll.....	Nia.	5,104	31,840.75	2,017,366	1,282	131	2.07	1.6
Kincardine.....	G.B.	2,511	14,453.96	425,352	617	57	1.95	3.4
Kingsville.....	Nia.	2,354	13,602.27	647,665	704	77	1.61	2.1
Leamington.....	Nia.	5,004	28,104.71	1,549,884	1,342	96	1.75	1.8
Lindsay.....	E.O.	6,963	38,819.77	1,644,195	1,812	76	1.79	2.4
Listowel.....	Nia.	2,775	17,505.46	892,224	733	101	1.99	2.0
Long Branch.....	Nia.	3,550	24,085.71	1,283,720	1,135	94	1.79	1.9
Meaford.....	G.B.	2,687	11,855.47	438,763	637	59	1.55	2.7
Merritton.....	Nia.	2,487	11,709.66	706,893	635	93	1.53	1.6
Midland.....	G.B.	6,925	34,852.11	2,237,246	1,589	117	1.83	1.6
Mimico.....	Nia.	6,696	56,928.27	3,787,818	1,769	178	2.68	1.5
Napanee.....	E.O.	2,827	26,408.56	1,158,076	765	126	2.88	2.3
New Toronto.....	Nia.	7,484	34,857.29	2,145,768	1,488	120	1.79	1.6
Orangeville.....	G.B.	2,785	15,287.50	611,485	669	76	1.90	2.5
Paris.....	Nia.	4,297	23,530.97	1,455,546	1,063	114	1.85	1.6
Penetanguishene.....	G.B.	4,352	12,235.60	489,159	609	67	1.67	2.5
Perth.....	E.O.	4,052	23,494.77	1,236,234	943	109	2.08	1.9
Petrolia.....	Nia.	2,715	11,888.16	466,175	696	56	1.42	2.5
Pictou.....	E.O.	3,313	22,534.56	1,169,629	991	98	1.90	1.9
Port Colborne.....	Nia.	5,417	29,269.73	1,359,855	1,305	86	1.86	2.1
Port Hope.....	E.O.	4,520	29,702.71	1,078,546	1,207	74	2.05	2.3
Prescott.....	E.O.	3,083	16,061.63	1,043,850	660	132	2.03	1.5
Preston.....	Nia.	6,189	38,287.60	2,049,215	1,561	101	2.04	1.9
Riverside.....	Nia.	4,975	37,310.96	1,768,230	1,088	135	2.86	2.1
St. Marys.....	Nia.	4,023	29,587.34	1,350,946	1,034	109	2.38	2.2
Sandwich.....	Nia.	10,559	87,689.76	5,043,211	2,457	171	2.97	1.7
Simcoe.....	Nia.	5,174	21,450.54	1,125,114	1,207	77	1.48	1.9
Smiths Falls.....	E.O.	7,502	42,734.01	1,880,038	1,693	93	2.10	2.3
Strathroy.....	Nia.	2,887	20,032.06	1,072,554	809	110	2.06	1.9
Tecumseh.....	Nia.	2,423	13,661.18	444,470	504	73	2.19	3.0
Thorold.....	Nia.	4,945	18,646.70	1,052,921	1,166	75	1.33	1.7
Tillsonburg.....	Nia.	3,380	15,509.18	818,990	905	75	1.43	1.9
Trenton.....	E.O.	6,288	29,554.98	1,113,533	1,259	74	1.79	2.7
Walkerton.....	G.B.	2,370	15,025.75	597,543	548	91	2.29	2.5
Walkerville.....	Nia.	10,458	105,974.52	7,053,810	2,522	233	3.50	1.5
Wallaceburg.....	Nia.	4,457	19,094.33	839,189	1,040	67	1.53	2.3
Waterloo.....	Nia.	8,714	61,882.58	4,054,926	1,868	181	2.76	1.5
Weston.....	Nia.	4,828	42,202.72	3,534,546	1,256	235	2.80	1.2
Whitby.....	E.O.	5,297	19,879.51	1,060,436	825	107	2.01	1.9

## "D"—Continued

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1934  
of Population, 2,000 or more

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
6,554.98	201,247	120	140	4.55	3.3	11,654.46	15	415.6	760
6,225.70	294,876	130	189	3.99	2.1	22,585.38	26	980.0	831
13,451.34	536,990	235	190	4.77	2.5	15,800.96	20	680.0	1,425
6,936.51	249,169	121	172	4.78	2.8	18,931.32	20	688.4	857
5,274.25	216,646	108	167	4.07	2.4	35,555.03	27	1,591.0	819
3,155.55	183,096	65	234	4.00	1.8	3,454.42	5	104.9	590
7,860.94	392,032	124	263	5.28	2.0	13,624.17	12	803.7	725
14,686.28	805,894	234	287	5.23	1.8	27,852.74	44	1,269.2	1,560
7,117.59	210,773	121	145	4.91	3.4	12,287.64	20	521.7	758
6,205.86	245,859	172	119	3.01	2.5	4,529.26	12	192.4	888
14,994.60	735,824	252	243	4.96	2.0	17,237.63	28	780.5	1,622
22,789.74	1,005,639	329	255	5.77	2.3	29,584.35	77	1,506.4	2,218
8,092.05	341,967	149	191	4.53	2.4	12,572.34	20	535.0	902
5,167.29	272,643	100	227	4.31	1.9	2,030.41	5	89.9	1,240
6,719.73	232,001	142	136	3.95	2.9	5,574.88	16	286.5	795
2,175.88	88,280	63	116	2.87	2.4	74,179.37	10	3,459.6	708
13,540.44	709,810	216	274	5.22	1.9	53,237.31	58	3,837.0	1,863
10,048.43	493,025	139	296	6.02	2.0	10,927.71	17	474.0	1,925
13,876.11	438,308	195	187	6.93	3.2	12,922.41	32	574.1	992
13,017.84	791,305	176	375	6.16	1.6	118,134.11	31	4,983.8	1,695
9,448.93	363,375	155	195	5.08	2.6	7,293.67	25	355.3	849
8,417.47	433,315	180	201	3.90	1.9	13,297.80	25	733.2	1,268
4,501.99	146,079	102	119	3.68	3.1	13,494.51	27	578.2	738
15,960.51	566,300	193	244	6.89	2.8	18,263.13	25	806.7	1,161
6,455.77	238,993	166	120	3.24	2.7	22,142.83	57	688.0	919
13,250.39	584,087	206	236	5.36	2.3	8,703.82	36	428.5	1,233
12,496.18	616,082	227	226	4.60	2.0	13,711.00	21	487.3	1,553
12,066.16	391,267	199	164	5.05	3.1	26,219.34	44	1,077.2	1,450
8,269.96	434,927	156	232	4.42	1.9	5,011.69	18	305.3	834
16,122.95	720,056	241	249	5.58	2.2	35,488.09	48	2,033.3	1,850
4,128.74	144,742	50	241	6.88	2.8	9,469.12	8	481.3	1,146
10,308.31	441,173	183	201	4.69	2.3	17,698.17	32	661.6	1,249
15,952.72	782,650	202	323	6.58	2.0	13,311.52	27	719.2	2,686
23,848.73	1,327,935	314	352	6.33	1.8	26,179.20	38	1,018.7	1,559
15,271.34	614,496	263	195	4.84	2.5	22,848.24	48	886.1	2,004
9,765.67	395,625	171	193	4.76	2.4	11,307.83	27	533.0	1,007
3,418.64	113,188	50	188	5.64	3.0	1,492.87	3	69.7	557
6,594.17	379,139	191	165	2.87	1.8	34,308.61	17	1,802.1	1,374
12,131.26	596,265	239	208	4.23	2.0	11,674.47	31	600.0	1,175
18,632.97	665,408	249	223	6.24	2.3	69,034.39	50	2,456.8	1,558
8,269.30	276,012	134	172	5.14	3.0	4,980.15	17	190.0	699
29,693.55	1,374,413	314	364	7.65	2.1	144,910.10	87	6,504.5	2,923
10,407.36	444,687	234	158	3.70	2.3	52,520.02	29	1,644.0	1,303
21,335.54	1,014,554	243	348	7.32	2.1	28,782.11	75	1,773.9	2,186
9,284.20	514,653	176	244	4.40	1.8	36,504.01	29	1,791.8	1,461
10,157.37	410,419	153	224	5.53	2.5	16,305.01	21	651.5	999

## STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service

## Group III—SMALL TOWNS (less than 2,000 population),

NOTE—The power used in the smaller places and rural districts is, and possibly must always be, a relatively small proportion of the power distributed by the Commission. Thus, the power used by the small municipalities in the following group, which includes small towns, villages and certain suburban areas in townships, is less than 10 per cent of the power distributed by the Commission to Ontario municipalities. This relatively small proportion of the total power,

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Acton.....	Nia.	1,885	10,376.00	574,462	486	98	1.78	1.8
Agincourt.....	Nia.	P.V.	4,961.90	172,792	142	101	2.91	2.9
Ailsa Craig.....	Nia.	468	2,672.24	90,053	130	57	1.71	3.0
Alliston.....	G.B.	1,379	8,598.06	234,890	341	57	2.10	3.7
Alvinston.....	Nia.	690	4,049.73	56,990	153	31	2.20	7.1
Ancaster Twp.....	Ni.		8,791.70	430,441	271	132	2.70	2.0
Apple Hill.....	E.O.	P.V.	1,105.12	17,054	43	33	2.14	6.5
Arkona.....	Nia.	397	2,709.77	47,022	98	40	2.30	5.8
Arthur.....	G.B.	1,036	4,532.27	83,484	185	38	2.04	5.4
Athens.....	E.O.	652	3,575.13	72,301	145	42	2.05	4.9
Aylmer.....	Nia.	1,987	10,695.03	539,990	644	70	1.38	2.0
Ayr.....	Nia.	773	5,170.53	216,301	205	88	2.10	2.4
Baden.....	Nia.	P.V.	3,866.23	196,848	136	121	2.37	2.0
Bath.....	E.O.	355	1,382.54	31,936	32	100	3.60	4.3
Beachville.....	Nia.	P.V.	2,814.26	107,880	133	68	1.76	2.6
Beaverton.....	G.B.	989	6,186.17	260,557	313	69	1.65	2.4
Beeton.....	G.B.	601	3,702.58	69,113	125	46	2.47	5.4
Belle River.....	Nia.	719	3,389.23	107,412	198	45	1.43	3.2
Blenheim.....	Nia.	1,702	8,807.18	368,365	496	62	1.48	2.4
Bloomfield.....	E.O.	619	2,930.69	93,833	153	51	1.60	3.1
Blyth.....	Nia.	626	3,857.20	95,913	162	49	1.98	4.0
Bolton.....	Nia.	553	3,588.00	116,386	163	60	1.83	3.1
Bothwell.....	Nia.	685	2,875.02	106,640	171	52	1.40	2.7
Bradford.....	G.B.	1,060	6,521.11	173,486	227	64	2.39	3.8
Brantford Twp.....	Nia.		19,641.05	914,669	801	95	2.04	2.1
Brechin.....	G.B.	P.V.	957.73	16,613	44	31	1.81	5.8
Bridgeport.....	Nia.	P.V.	3,902.06	150,668	119	106	2.73	2.6
Brigden.....	Nia.	P.V.	2,203.67	49,978	104	40	1.77	4.4
Brighton.....	E.O.	1,442	10,010.58	216,887	479	39	1.74	4.6
Brussels.....	Nia.	766	5,221.99	116,938	214	46	2.03	4.5
Burford.....	Nia.	P.V.	4,060.91	188,590	173	90	1.79	2.2
Burgessville.....	Nia.	P.V.	1,146.69	31,456	50	53	1.91	3.6
Caledonia.....	Nia.	1,475	5,350.11	202,983	337	50	1.32	2.6
Campbellville.....	Nia.	P.V.	1,328.82	26,540	45	49	2.46	5.0
Cannington.....	G.B.	864	5,228.96	187,051	240	65	1.82	2.8



# “D”—Continued

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1934

## VILLAGES AND SUBURBAN AREAS

however, exerts upon the economic life of the Province a most beneficial influence. It should further be appreciated that about 35 per cent of these municipalities obtain their power, not from Niagara, but from relatively small water-power developments throughout the Province. The net cost per kilowatt-hour given in the table is the cost inclusive of all charges. Consult also introduction to Statement “D”, page 402.

Commercial light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
3,961.88	196,705	87	188	3.80	2.0	23,886.57	16	827.6	589
1,233.46	40,965	28	122	3.67	3.0	1,266.75	3	58.2	173
1,451.96	32,615	37	73	3.27	4.4	1,019.14	2	40.3	169
4,699.85	106,671	112	79	3.50	4.4	2,672.13	14	143.6	467
2,314.51	42,508	51	69	3.78	5.4	542.73	2	20.7	206
1,659.64	68,433	37	154	3.74	2.4	815.86	5	42.0	313
810.93	16,702	21	66	3.22	4.9	279.57	1	9.6	65
1,689.52	36,467	37	82	3.81	4.6	193.84	2	5.0	137
3,718.74	66,471	86	64	3.70	5.6	1,991.60	4	89.1	275
1,570.16	34,011	45	63	2.91	4.6	1,105.89	1	34.7	191
7,216.59	349,240	137	212	4.39	2.1	3,467.97	9	171.0	790
1,769.35	62,310	45	115	3.28	2.8	198.39	3	11.5	253
1,458.83	51,246	34	126	3.58	2.8	5,429.78	3	208.4	173
782.45	13,395	16	70	4.89	5.8				48
667.67	18,521	20	77	2.78	3.6	9,144.46	4	398.6	157
2,247.30	96,652	61	132	3.07	2.3	1,138.88	10	70.5	384
2,562.38	51,155	37	115	5.77	5.0	1,837.31	4	74.2	166
1,424.16	40,603	43	79	2.76	3.5	1,462.41	4	43.0	245
6,390.37	282,081	125	188	4.26	2.3	4,478.07	10	156.2	631
979.18	28,864	28	103	2.91	2.8	1,241.68	6	53.0	187
1,727.93	42,086	49	72	2.94	4.1	997.85	4	40.5	215
917.08	23,578	42	47	1.82	3.9	1,975.02	9	98.0	214
1,268.56	49,902	48	87	2.20	2.5	740.16	5	65.1	224
3,161.58	62,236	65	80	4.05	5.1	2,250.37	8	130.9	300
3,614.82	189,130	46	343	6.55	1.9	3,036.90	5	127.0	852
990.36	20,784	27	64	3.06	4.8	826.19	3	36.0	74
1,126.54	28,439	19	125	4.94	4.0	463.96	5	16.6	143
1,695.15	37,104	43	72	3.28	4.6	1,283.50	5	44.2	152
4,917.65	126,316	98	107	4.28	3.9	2,471.70	11	139.1	588
2,661.82	66,979	66	85	3.36	4.0	681.37	2	25.0	282
964.07	40,841	33	103	2.44	2.4	1,331.08	4	62.0	210
532.21	12,910	16	67	2.77	4.1				66
3,877.30	171,758	88	162	3.67	2.2	2,009.76	6	82.5	431
450.70	11,891	9	110	4.17	3.8				54
2,237.31	69,323	69	84	2.70	3.2	618.71	10	33.9	319

## STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c. cts.	
Cardinal.....	E.O.	1,395	6,959.24	214,713	308	58	1.88	3.2
Cayuga.....	Nia.	693	3,428.46	87,125	124	58	2.14	3.9
Chatsworth.....	G.B.	308	1,692.75	35,065	79	37	1.79	4.8
Chesley.....	G.B.	1,762	8,984.38	341,882	422	68	1.77	2.6
Chesterville.....	E.O.	970	5,427.10	234,142	232	84	1.95	2.3
Chippawa.....	Nia.	1,051	7,216.68	441,942	319	116	1.90	1.6
Clifford.....	Nia.	440	2,437.55	48,580	101	40	2.01	5.0
Clinton.....	Nia.	1,848	11,791.74	493,621	511	81	1.92	2.4
Colborne.....	E.O.	1,040	5,197.09	111,138	235	39	1.84	4.7
Coldwater.....	G.B.	632	2,852.44	129,177	135	80	1.76	2.2
Comber.....	Nia.	P.V.	2,175.65	58,350	95	51	1.91	3.7
Cookstown.....	G.B.	P.V.	2,384.91	37,738	99	32	2.01	6.3
Cottam.....	Nia.	P.V.	2,501.42	64,121	103	52	2.02	3.9
Courtright.....	Nia.	338	1,620.01	24,622	62	33	2.18	6.6
Creemore.....	G.B.	620	3,733.87	73,293	145	42	2.15	5.1
Dashwood.....	Nia.	P.V.	1,422.82	35,686	66	45	1.80	4.0
Delaware.....	Nia.	P.V.	1,360.24	60,035	52	96	2.18	2.3
Deseronto.....	E.O.	1,399	6,183.07	136,117	278	41	1.85	4.5
Dorchester.....	Nia.	P.V.	2,305.63	93,977	126	62	1.52	2.5
Drayton.....	Nia.	559	3,136.66	103,112	153	56	1.71	3.0
Dresden.....	Nia.	1,469	6,355.74	225,988	361	52	1.47	2.8
Drumbo.....	Nia.	P.V.	2,072.51	70,797	82	72	2.11	3.0
Dublin.....	Nia.	P.V.	1,321.41	21,795	41	44	2.69	6.1
Dundalk.....	G.B.	650	2,783.62	86,386	166	43	1.40	3.2
Durham.....	G.B.	1,776	6,631.32	276,714	422	55	1.31	2.4
Dutton.....	Nia.	798	3,363.41	149,056	207	60	1.35	2.3
East York Twp. ....	Nia.	.....	176,947.44	8,913,290	9,170	81	1.61	2.0
Elmvale.....	G.B.	P.V.	2,805.65	91,744	156	49	1.50	3.1
Elmwood.....	G.B.	P.V.	1,174.92	19,932	59	28	1.66	5.9
Elora.....	Nia.	1,152	7,206.38	294,013	309	79	1.94	2.5
Embro.....	Nia.	437	2,742.64	100,860	101	83	2.26	2.7
Erieau.....	Nia.	273	3,960.98	90,987	162	47	2.04	4.4
Erie Beach.....	Nia.	.....	1,533.84	18,926	68	23	1.94	8.4
Essex.....	Nia.	1,786	7,364.59	325,830	431	63	1.42	2.3
Etobicoke Twp. ....	Nia.	.....	104,459.43	7,167,296	3,327	180	2.62	1.5
Exeter.....	Nia.	1,606	11,436.89	466,372	442	88	2.16	2.4
Finch.....	E.O.	393	1,821.05	46,759	80	49	1.90	3.9
Flesherton.....	G.B.	488	2,630.38	72,882	139	44	1.58	3.6
Fonthill.....	Nia.	872	4,992.13	189,967	214	74	1.94	2.6
Forest.....	Nia.	1,487	10,818.08	396,850	461	72	1.96	2.7

## "D"—Continued

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1934

## VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
1,875.06	60,484	53	95	2.95	3.1	536.64	2	14.9	363
2,869.64	66,095	56	98	4.27	4.3	1,331.20	4	38.6	184
1,367.56	23,627	33	60	3.45	5.8				112
4,079.24	156,512	98	133	3.47	2.6	9,420.05	19	352.0	539
2,389.97	77,374	68	95	2.93	3.1	1,361.85	3	55.0	303
1,199.38	51,175	34	125	2.94	2.3	1,123.29	5	36.5	358
1,527.35	32,303	38	71	3.35	4.7	128.59	1	5.0	140
5,966.63	208,194	128	133	3.88	2.9	5,555.50	14	220.3	653
3,563.94	84,296	82	103	3.62	4.2	700.55	3	32.0	320
1,761.53	58,266	53	92	2.77	3.0	5,363.65	3	194.2	191
2,307.06	69,369	49	118	3.92	3.3	3,329.62	3	89.4	147
1,099.95	16,743	28	50	3.27	6.6	780.27	4	42.5	131
1,198.59	38,640	25	129	4.00	3.1	324.85	1	15.0	129
924.35	14,701	23	53	3.35	6.3	851.05	2	14.9	87
2,150.81	41,257	52	66	3.45	5.2	854.17	2	48.7	199
876.92	16,120	26	52	2.81	5.4				92
565.31	21,119	18	98	2.62	2.7				70
2,265.64	43,583	63	58	3.00	5.2	1,771.32	14	74.0	355
842.29	30,647	29	88	2.42	2.7	533.43	2	26.1	157
1,957.82	50,113	64	66	2.55	3.9	999.34	4	47.5	221
5,186.24	198,828	113	138	3.82	2.6	5,028.05	10	196.0	484
930.26	26,170	26	84	2.98	3.5	592.25	1	20.8	109
855.49	13,840	24	48	2.97	6.2	405.34	2	17.8	67
2,257.59	66,714	67	83	2.81	3.4	2,189.91	4	121.6	237
4,294.98	152,882	112	114	3.20	2.8	6,474.69	10	285.8	544
2,435.84	90,685	71	106	2.86	2.7	3,395.33	7	144.7	285
24,651.03	1,336,467	405	275	5.07	1.8	32,269.01	44	1,357.5	9,619
1,684.05	57,027	57	83	2.46	3.0	2,911.08	8	131.1	221
652.37	12,955	19	57	2.86	5.0	1,234.95	1	33.5	79
3,536.74	112,612	76	123	3.88	3.1	2,832.25	2	122.1	387
1,616.16	40,927	47	72	2.86	4.0	1,218.33	1	36.6	149
1,219.60	27,544	11	209	9.24	4.4	944.65	4	33.7	177
297.50	5,551	3	154	8.26	5.4				71
4,299.43	179,861	114	131	3.14	2.4	5,989.60	17	281.6	562
15,829.23	844,752	205	343	7.72	1.9	18,516.91	24	813.5	3,556
5,098.61	152,020	110	115	3.86	3.4	4,326.16	9	198.6	561
1,354.08	31,471	32	82	3.53	4.3	769.79	1	17.9	113
1,886.48	46,979	51	77	3.08	4.0	192.89	2	11.0	192
1,016.41	44,764	32	117	2.64	2.3	559.62	4	19.5	250
5,342.83	157,214	126	104	3.53	3.4	4,998.23	22	195.6	609



## STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw.-hr.
			\$ c.	kw.-hr.		kw.-hr.	\$ c.	cts.
Glencoe.....	Nia.	827	5,488.13	173,609	218	66	2.10	3.2
Grand Valley.....	G.B.	589	3,495.14	75,240	156	40	1.87	4.6
Granton.....	Nia. P.V.		1,924.52	78,673	81	81	1.98	2.4
Gravenhurst.....	G.B.	1,956	9,438.44	625,979	460	113	1.71	1.5
Hagersville.....	Nia.	1,355	5,010.61	237,911	334	59	1.25	2.1
Harriston.....	Nia.	1,321	7,874.26	234,557	343	57	1.91	3.4
Harrow.....	Nia.	928	7,395.41	393,375	257	128	2.40	1.9
Hastings.....	E.O.	753	4,031.38	89,662	189	40	1.78	4.4
Havelock.....	E.O.	1,249	5,960.19	129,481	281	38	1.77	4.7
Hensall.....	Nia.	697	4,173.05	145,291	182	67	1.91	2.9
Highgate.....	Nia.	343	1,837.56	50,498	95	44	1.61	3.6
Holstein.....	G.B. P.V.		1,304.56	11,017	53	17	2.05	11.8
Jarvis.....	Nia.	531	2,420.67	59,735	121	41	1.66	4.0
Kemptville.....	E.O.	1,227	7,108.96	227,197	319	59	1.85	3.1
Kirkfield.....	G.B. P.V.		759.85	11,469	31	31	2.04	6.6
Lakefield.....	E.O.	1,387	6,324.64	222,423	312	59	1.69	2.8
Lambeth.....	Nia. P.V.		3,523.95	162,195	110	123	2.67	2.2
Lanark.....	E.O.	623	2,879.49	64,197	154	35	1.56	4.5
Lancaster.....	E.O.	575	2,019.15	28,765	84	29	2.00	7.0
La Salle.....	Nia.	600	5,515.53	233,304	151	129	3.04	2.4
London Twp.....	Nia.		11,307.27	708,480	335	176	2.81	1.6
Lucan.....	Nia.	528	4,584.29	185,550	174	89	2.20	2.5
Lucknow.....	G.B.	964	6,700.39	182,707	271	56	2.06	3.7
Lynden.....	Nia. P.V.		1,984.32	63,824	82	65	2.02	3.1
Madoc.....	E.O.	1,067	4,884.31	121,718	280	36	1.45	4.0
Markdale.....	G.B.	792	3,724.51	133,716	196	57	1.58	2.8
Markham.....	Nia.	1,060	6,961.31	259,367	271	80	2.24	2.7
Marmora.....	E.O.	1,015	3,912.68	78,284	208	31	1.57	5.0
Martintown.....	E.O. P.V.		829.16	13,078	36	30	1.92	6.3
Maxville.....	E.O.	725	3,225.77	50,732	135	31	1.99	6.3
Merlin.....	Nia. P.V.		2,183.15	52,214	106	41	1.72	4.2
Mildmay.....	G.B.	714	2,980.43	63,064	147	36	1.69	4.7
Milton.....	Nia.	1,804	11,342.00	526,306	438	100	2.16	2.2
Milverton.....	Nia.	1,002	5,629.79	260,006	228	95	2.06	2.2
Mitchell.....	Nia.	1,497	10,772.48	536,555	460	97	1.95	2.0
Moorefield.....	Nia. P.V.		1,159.27	23,068	58	33	1.67	5.0
Mt. Brydges.....	Nia. P.V.		2,755.72	105,937	140	63	1.64	2.6
Mt. Forest.....	G.B.	1,839	7,630.71	357,980	458	65	1.39	2.1
Neustadt.....	G.B.	458	2,220.52	23,931	92	23	2.01	9.3
Newbury.....	Nia.	256	1,197.60	26,149	63	35	1.58	4.6

## “D”—Continued

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1934

## VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
3,310.81	85,728	82	87	3.36	3.9	3,051.32	6	100.0	306
1,828.42	35,602	48	62	3.17	5.1	1,753.93	4	74.2	208
1,066.06	35,674	34	87	2.61	3.0	709.56	1	37.3	116
5,842.96	455,943	107	355	4.55	1.3	8,711.06	13	422.3	580
4,620.29	272,705	108	210	3.51	1.7	12,439.59	16	590.4	458
4,836.50	132,250	105	105	3.84	3.7	5,702.48	13	228.3	461
3,510.64	129,129	74	145	3.95	2.7	3,778.91	3	143.4	334
1,582.54	23,894	53	38	2.49	6.6	677.57	5	25.5	247
2,194.92	42,884	60	59	3.05	5.2	2,603.14	3	92.4	344
1,717.39	47,326	47	84	3.05	3.6	2,622.51	14	116.8	243
960.87	23,167	38	51	2.11	4.1	1,103.53	6	55.2	139
612.16	5,464	20	23	2.55	11.2	27.30			73
1,820.01	51,046	44	96	3.44	3.5	3,889.08	4	123.7	169
4,520.83	161,339	78	172	4.83	2.8	4,121.02	7	160.8	404
1,160.68	21,915	20	91	4.84	5.3				51
3,490.74	146,323	68	179	4.28	2.4	1,444.28	5	103.5	385
1,455.73	45,997	25	153	4.85	3.2	569.90	1	27.5	136
1,251.36	34,908	39	75	2.67	3.6				193
1,565.75	23,275	34	57	3.84	6.7				118
1,373.41	55,802	17	274	6.73	2.5	1,995.15	4	72.6	172
2,479.86	120,907	24	420	8.61	2.0	1,707.94	5	69.0	364
1,673.81	50,682	47	90	2.97	3.3	394.28	6	22.5	227
3,071.61	73,749	88	70	2.91	4.2	3,572.98	6	129.5	365
710.34	33,905	21	135	2.82	2.1	791.91	1	36.6	104
3,536.32	111,675	92	101	3.20	3.2	1,828.65	6	118.7	378
2,611.63	78,491	72	91	3.02	3.3	949.79	9	65.9	277
2,760.91	93,122	66	118	3.49	3.0	2,914.00	10	112.7	347
1,789.38	48,542	49	83	3.04	3.7	165.76	2	12.0	259
917.32	16,489	20	69	3.82	5.6				56
2,523.20	42,445	48	74	4.38	5.9				183
1,512.98	36,618	43	71	2.93	4.1	935.76	1	27.6	150
2,010.99	34,531	47	61	3.57	5.8	775.68	2	24.3	196
5,422.01	233,755	105	186	4.30	2.3	10,572.03	21	426.7	564
2,931.18	86,484	72	100	3.39	3.4	2,856.82	7	167.9	307
4,305.49	178,305	113	131	3.18	2.4	4,684.80	25	251.6	598
617.87	10,373	22	39	2.34	6.0	1,069.57	2	42.0	82
864.47	29,478	32	76	2.25	2.9	883.68	3	30.6	175
5,318.39	211,520	143	123	3.10	2.5	4,330.18	13	259.5	614
1,411.70	19,576	31	53	3.79	7.2	42.21	1	2.0	124
793.88	15,171	23	55	2.88	5.2	723.89	2	36.6	88

## STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service

## Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
New Hamburg.....	Nia.	1,457	10,256.68	465,206	337	115	2.54	2.2
Niagara-on-the Lake.....	Nia.	1,614	14,141.76	922,818	466	165	2.53	1.5
Nipigon.....	T.B.	P.V.	2,593.14	79,145	147	45	1.47	3.3
North York Twp.....	Nia.		103,317.07	4,856,518	2,920	139	2.95	2.1
Norwich.....	Nia.	1,196	8,205.54	415,447	346	100	1.81	2.0
Norwood.....	E.O.	868	4,864.87	125,193	213	49	1.90	4.0
Oil Springs.....	Nia.	462	1,620.31	44,217	74	50	1.82	3.7
Omeme.....	E.O.	551	2,204.87	51,814	128	34	1.44	4.2
Otterville.....	Nia.	P.V.	2,170.36	80,797	111	61	1.63	2.7
Paisley.....	G.B.	713	3,971.68	73,369	175	35	1.89	5.4
Palmerston.....	Nia.	1,600	10,176.68	427,299	399	89	2.13	2.4
Parkhill.....	Nia.	1,021	4,835.48	107,530	240	37	1.68	4.5
Plattsville.....	Nia.	P.V.	2,500.67	60,016	95	53	2.19	4.2
Point Edward.....	Nia.	1,336	5,620.87	211,110	299	59	1.57	2.7
Port Credit.....	Nia.	1,650	13,605.90	912,420	398	191	2.86	1.5
Port Dalhousie.....	Nia.	1,495	13,663.90	870,383	560	130	2.03	1.5
Port Dover.....	Nia.	1,692	7,655.78	258,973	496	43	1.28	2.9
Port Elgin.....	G.B.	1,351	7,696.56	246,854	365	56	1.76	3.1
Port McNicoll.....	G.B.	880	3,312.27	100,952	195	43	1.42	3.3
Port Perry.....	G.B.	1,104	6,817.87	232,357	310	62	1.83	2.9
Port Rowan.....	Nia.	692	3,593.62	56,134	101	46	2.94	6.4
Port Stanley.....	Nia.	742	13,455.53	572,109	606	79	1.85	2.3
Priceville.....	G.B.	P.V.	560.73	5,872	27	18	1.73	9.6
Princeton.....	Nia.	P.V.	2,068.19	60,474	76	66	2.27	3.4
Queenston.....	Nia.	P.V.	2,945.67	152,593	70	181	3.50	1.9
Richmond.....	E.O.	413	1,843.49	48,024	55	73	2.79	3.8
Richmond Hill.....	Nia.	1,299	7,453.62	274,690	329	70	1.89	2.7
Ridgetown.....	Nia.	1,914	9,251.64	439,389	558	66	1.38	2.1
Ripley.....	G.B.	465	3,313.20	53,812	120	37	2.30	6.2
Rockwood.....	Nia.	P.V.	3,114.32	126,657	148	71	1.75	2.5
Rodney.....	Nia.	748	3,394.73	111,465	202	46	1.40	3.0
Rosseau.....	G.B.	286	3,267.90	50,378	62	68	4.39	6.5
Russell.....	E.O.	P.V.	2,622.95	47,013	105	37	2.08	5.6
St. Clair Beach.....	Nia.	81	1,848.63	65,927	39	141	4.00	2.8
St. George.....	Nia.	P.V.	2,949.80	127,656	132	81	1.86	2.3
St. Jacobs.....	Nia.	P.V.	3,942.31	191,314	113	141	2.91	2.1
Scarboro Twp.....	Nia.		95,233.61	4,698,700	4,483	87	1.77	2.0
Seaforth.....	Nia.	1,697	10,688.44	496,148	474	87	1.88	2.2
Shelburne.....	G.B.	1,121	5,485.48	197,368	287	57	1.59	2.8
Southampton.....	G.B.	1,356	7,945.62	255,293	396	54	1.67	3.1



## "D"—Continued

in Ontario Municipalities Served by the Commission  
and for Power Service during the year 1934

## VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption kw-hr.	Average monthly bill \$ c.	Net cost per kw-hr. cents	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
4,049.52	130,532	90	121	3.75	3.1	4,822.52	13	220.1	440
3,566.41	198,056	79	209	3.76	1.8	2,750.06	11	98.9	556
1,793.53	58,541	37	133	4.04	3.1	940.11	2	40.3	186
16,424.74	548,476	240	190	5.70	3.0	32,398.63	38	1,000.6	3,198
3,270.25	125,987	89	118	3.06	2.6	2,101.35	6	100.0	441
2,482.65	53,990	64	70	3.23	4.6	652.17	2	23.8	279
1,299.15	36,310	29	104	3.73	3.6	7,499.30	30	197.1	133
1,330.43	34,034	46	62	2.41	3.9	1,543.36	6	67.4	180
1,652.03	49,511	44	94	3.13	3.3	120.78	2	6.0	157
2,728.17	72,527	53	114	4.29	3.8	1,208.53	4	31.9	232
5,051.24	211,912	95	186	4.43	2.4	6,793.93	10	294.3	504
3,094.20	71,330	79	75	3.26	4.3	753.41	3	29.0	322
1,067.27	24,438	25	81	3.56	4.4	651.88	1	17.2	121
1,855.65	58,572	46	106	3.36	3.2	22,513.59	10	854.0	355
5,172.31	235,720	75	262	5.75	2.2	2,731.62	6	132.8	479
2,129.27	103,703	48	180	3.70	2.0	4,869.74	13	265.1	621
4,253.13	145,429	128	94	2.73	2.9	4,745.95	11	211.3	635
3,962.43	115,511	84	115	3.94	3.4	4,129.08	9	208.8	458
835.07	22,029	32	57	2.17	3.8				227
2,864.18	76,940	79	81	3.02	3.7	2,484.84	9	103.9	398
1,620.70	25,948	31	69	4.35	6.3	83.71	1	3.5	133
3,749.74	117,270	97	101	3.22	3.2	4,159.39	9	155.0	712
373.66	6,691	11	51	2.83	5.6				38
728.69	21,614	20	90	3.04	3.4	3,028.37	3	81.3	99
912.69	36,355	11	275	6.91	2.5				81
1,518.24	37,423	25	125	5.06	4.1				80
3,772.41	167,456	63	215	4.84	2.3	2,516.04	17	139.7	411
4,947.97	213,637	147	121	2.80	2.3	4,009.03	19	215.4	724
1,818.19	26,321	50	44	3.03	6.9				170
1,017.28	40,098	35	95	2.42	2.5	236.51	2	10.4	185
2,251.08	65,298	74	74	2.54	3.4	1,980.35	7	83.7	283
969.41	9,897	20	41	4.04	9.8				82
1,134.81	25,436	34	62	2.78	4.4				139
1,425.73	37,803	5	630	23.76	3.8	262.14	1	8.8	45
1,099.16	37,940	37	85	2.48	2.9	2,059.66	3	76.4	172
1,227.43	33,109	28	99	3.65	3.7	1,145.51	6	60.8	147
20,281.81	923,472	361	213	4.68	2.2	22,207.63	36	826.9	4,880
5,223.45	239,551	117	171	3.72	2.2	4,870.76	15	254.6	606
3,530.53	104,270	85	102	3.46	3.4	2,739.15	14	162.1	386
3,376.56	101,523	81	104	3.47	3.3	4,362.40	12	167.0	489

## STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			Revenue	Consumption	Number of con- sumers					
			\$ c.	kw-hr.		kw-hr.	\$ c.	cts.		
Springfield.....	Nia.	372	1,775.06	56,736	97	49	1.53	3.1		
Stamford Twp.....	Nia.		54,149.44	3,477,117	1,668	173	2.70	1.6		
Stayner.....	G.B.	995	4,425.38	196,641	251	65	1.47	2.3		
Stirling.....	E.O.	949	5,454.87	299,242	277	90	1.64	1.8		
Stouffville.....	Nia.	1,174	7,017.62	264,484	339	65	1.73	2.7		
Sunderland.....	G.B.	P.V.	2,331.70	44,901	112	33	1.73	5.2		
Sutton.....	Nia.	806	7,298.86	190,465	399	40	1.52	3.8		
Tara.....	G.B.	505	2,701.95	58,085	140	35	1.61	4.7		
Tavistock.....	Nia.	1,050	6,973.88	357,209	256	116	2.27	2.0		
Teeswater.....	G.B.	796	4,475.34	100,766	196	43	1.90	4.4		
Thamesford.....	Nia.	P.V.	2,495.30	112,920	124	76	1.67	2.2		
Thamesville.....	Nia.	763	3,938.61	150,908	217	58	1.51	2.6		
Thedford.....	Nia.	572	3,032.53	53,903	131	34	1.93	5.6		
Thorndale.....	Nia.	P.V.	1,391.02	35,340	60	49	1.93	3.9		
Thornton.....	G.B.	P.V.	1,432.28	17,169	56	26	2.13	8.3		
Tilbury.....	Nia.	1,897	6,979.95	309,504	423	61	1.38	2.3		
Toronto Twp.....	Nia.		60,681.43	3,353,582	1,969	142	2.57	1.8		
Tottenham.....	G.B.	556	3,270.65	61,406	121	42	2.25	5.3		
Trafalgar Twp. No. 1.....	Nia.		13,991.77	588,819	266	184	4.38	2.4		
Trafalgar Twp. No. 2.....	Nia.		5,818.71	207,295	148	117	3.28	2.8		
Tweed.....	E.O.	1,287	6,177.30	128,945	249	43	2.07	4.8		
Uxbridge.....	G.B.	1,512	8,265.16	283,910	360	66	1.91	2.9		
Victoria Harbor.....	G.B.	1,126	2,920.70	85,021	172	41	1.42	3.4		
Wardsville.....	Nia.	240	1,105.32	22,458	52	36	1.77	4.9		
Warkworth.....	E.O.	P.V.	2,250.85	40,321	117	29	1.60	5.6		
Waterdown.....	Nia.	919	5,682.98	286,642	227	105	2.08	1.9		
Waterford.....	Nia.	1,213	6,537.53	347,100	315	91	1.64	1.8		
Watford.....	Nia.	941	6,272.18	190,450	272	58	1.92	3.3		
Waubashene.....	G.B.	P.V.	2,315.90	104,659	137	64	1.41	2.2		
Wellesley.....	Nia.	P.V.	2,838.42	78,942	127	52	1.86	3.6		
Wellington.....	E.O.	920	4,742.66	194,537	286	57	1.38	2.4		
West Lorne.....	Nia.	776	2,957.12	95,283	189	42	1.30	3.1		
Westport.....	E.O.	738	3,120.69	52,761	90	49	2.89	5.9		
Wheatley.....	Nia.	754	3,905.06	117,613	169	58	1.93	3.3		
Wiarton.....	G.B.	1,815	8,263.00	173,409	352	41	1.96	4.8		
Williamsburg.....	E.O.	P.V.	3,546.52	176,177	98	150	3.02	2.0		
Winchester.....	E.O.	930	6,291.18	308,455	278	92	1.89	2.0		
Windermere.....	G.B.	130	2,540.07	35,288	51	58	4.15	7.2		
Wingham.....	G.B.	1,923	12,831.04	435,743	504	72	2.12	2.9		
Woodbridge.....	Nia.	740	6,305.43	271,821	254	89	2.07	2.3		
Woodville.....	G.B.	420	2,266.10	59,571	112	44	1.69	3.8		
Wyoming.....	Nia.	505	2,709.73	58,517	128	38	1.76	4.6		
Zurich.....	Nia.	P.V.	3,113.96	76,204	124	51	2.09	4.1		

# “D”—Concluded

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1934

## VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
734.68	17,164	30	48	2.04	4.3	1,262.21	4	44.7	131
6,926.87	435,581	93	390	5.85	1.5	8,988.60	13	419.3	1,774
2,750.32	99,159	82	101	2.80	2.8	2,337.22	11	157.1	344
3,476.71	134,240	86	130	3.37	2.6	1,850.39	9	76.9	372
2,824.27	74,481	86	72	2.74	3.8	860.47	5	39.8	430
1,760.97	37,629	39	80	3.76	4.7	60.67	1	5.0	152
2,878.02	76,829	79	81	3.04	3.7	1,004.28	4	27.8	482
1,373.63	42,514	37	96	3.09	3.2	751.17	4	34.1	181
2,078.20	81,008	72	95	2.41	2.6	9,740.21	7	363.4	335
2,514.88	51,722	60	71	3.49	4.9	1,186.74	6	51.8	262
1,410.50	61,987	41	126	2.85	2.3	3,548.72	7	111.0	172
2,596.58	91,808	70	109	3.09	2.8	2,100.74	7	101.2	295
1,978.94	30,176	39	56	4.23	6.6	1,401.97	3	38.4	173
909.59	21,784	23	79	3.30	4.2	252.97	1	5.4	84
567.49	8,636	17	42	2.78	6.6	299.37	2	15.5	75
7,364.40	345,993	134	215	4.58	2.1	7,214.06	14	464.4	571
13,976.92	617,476	183	281	6.37	2.3	8,086.71	23	389.1	2,175
1,954.92	25,544	52	41	3.13	7.7	423.66	5	15.0	178
663.51	17,486	2	729	27.64	3.8	533.41	9	26.2	277
									148
4,551.82	71,309	92	65	4.12	6.4	2,866.90	12	118.6	353
3,295.58	92,785	83	83	2.95	3.6	968.73	10	65.0	463
839.58	29,869	27	92	2.59	2.8	171.93	2	6.0	201
1,181.89	16,650	22	63	4.48	7.1				74
1,543.53	31,935	38	70	3.39	4.8				155
1,774.40	95,914	36	222	4.10	1.8	2,003.95	6	86.8	269
1,625.85	93,715	74	105	1.79	1.7	4,619.58	10	238.8	399
3,341.42	94,387	73	108	4.36	3.5	2,705.97	5	96.0	350
715.54	29,370	24	102	2.50	2.4	512.81	3	17.0	164
1,534.96	37,334	45	69	2.84	4.1	1,796.02	5	62.3	177
1,930.48	61,707	63	82	2.55	3.1	1,922.92	6	76.5	355
1,392.58	48,860	48	85	2.42	2.9	833.03	3	34.0	240
2,625.60	36,818	45	68	4.86	7.1				135
2,598.56	68,365	60	95	3.61	3.8	1,692.22	3	69.3	232
5,775.95	126,744	117	90	4.11	4.6	3,785.34	14	128.4	483
6,544.69	266,980	62	359	8.80	2.5	181.87	1	13.6	161
3,372.12	129,444	68	159	4.13	2.6	1,604.58	2	41.1	348
1,172.79	17,980	10	150	9.77	6.5				61
6,946.66	199,047	146	114	3.96	3.5	9,979.51	23	369.4	673
1,799.56	62,736	50	105	3.00	2.9	4,581.35	5	209.4	309
1,131.46	23,990	31	64	3.04	4.7	704.41	2	35.0	145
1,662.31	38,415	49	65	2.83	4.3	87.71	1	10.0	178
1,910.73	37,008	46	67	3.46	5.2				170



## STATEMENT "E"

### **Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Urban Municipalities Served by The Hydro-Electric Power Commission for the Year 1934**

In Statement "E" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through the Hydro-Electric Power Commission.\* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, an important factor in determining rates to consumers, is also stated.

#### **Cost of Power to Municipalities**

The figures in the first column represent the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of horsepower supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the several systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

#### **Rates to Consumers**

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission." In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

At the commencement of its operations, the Commission introduced scientifically-designed rate schedules for each of the three main classes into which the electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement.

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\*Except townships served as parts of rural power districts, for which consult latter part of Section III.

*Domestic Service:* Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

*Commercial Light Service:* Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

*Water-Heater Service:* For all consumers using continuous electric water heaters, low flat rates are available consisting of a fixed charge per month dependent on the capacity of the heating element and the cost of power to the municipal utility. Such heaters are so connected that the electrical energy they consume is not metered. For new installations the necessary equipment, including heater, thermostat, efficient insulation for water storage tank, and wiring, is installed by the Hydro-Electric Power Commission of Ontario without capital cost to the consumer or to the municipal electric utility.†

*Power Service:* The rate schedules given for power service in Statement "E" are those governing the supply of power at retail by each of the local municipal utilities. The average amount of power sold, per consumer, under these rates is approximately 40 horsepower—consult Statement "D." The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where load conditions and other circumstances permit, lower rates are available for 10-hour power, and for other forms of restricted service. For these classifications, discounts additional to those listed in the table are applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours monthly use of demand." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

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†In addition, the Commission supplies booster water-heating equipment to furnish extra requirements beyond the capacity of the continuous heater; current for the booster heater is measured and charged for at the regular rates.

## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1934, in Urban Municipalities**

Municipality*	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Acton.....	31.98	33-66	60	2.2	1.1	0.83	10
Agincourt.....	38.95	33-66	50	4	1.5	1.11	10
Ailsa Craig.....	52.25	33-66	55	3.5	1.5	0.83	10
Alexandria.....T	61.20	33-66	60	5	2	1.11	10
Alliston.....	52.97	33-66	40	4.5	2	1.39	10
Alvinston.....	92.56	33-66	60	6	2	2.22	10
Amherstburg.....T	35.84	33-66	55	2.8	1.3	0.83	10
Ancaster twp.....	31.05	33-66	55	3	1.5	0.83	10
Apple Hill.....	52.95	33-66	60	6	2	1.66	10
Arkona.....	77.68	33-66	55	6	2	1.94	10
Arthur.....	68.79	33-66	40	6	2	1.67	10
Athens.....	51.69	33-66	45	5	1.5	1.39	10
Aylmer.....T	34.61	33-66	60	2.3	1	0.83	10
Ayr.....	34.44	33-66	55	3	1.25	1.11	10
Baden.....	31.63	33-66	60	2.5	1.25	0.83	10
Barrie.....T	31.45	33-66	60	2.5	1.25	0.83	10
Bath.....	75.84	33-66	40	6	2	3.33	10
Beachville.....	32.44	33-66	55	3	1.5	0.83	10
Beaverton.....	39.24	33-66	60	2.5	1.25	1.11	10
Beeton.....	69.14	33-66	35	7	2	1.67	10
Belle River.....	38.29	33-66	55	3.2	1.3	1.11	10
Belleville.....C	33.00	.....	60	3	1.25	0.83	10
Blenheim.....	38.12	33-66	60	2.5	1.25	0.83	10
Bloomfield.....	53.55	33-66	50	4	1.5	1.11	10
Blyth.....	53.08	33-66	50	4	2	1.39	10
Bolton.....	43.59	33-66	55	3.5	1.6	1.11	10
Bothwell.....	46.04	33-66	60	2.5	1.25	0.83	10
Bowmanville.....T	37.02	.....	60	5	1.5	0.83	10
Bradford.....	60.37	33-66	35	5.5	1.5	1.67	10
Brampton.....T	30.27	33-66	60	2	1	0.83	10
Brantford.....C	26.80	33-66	60	2	1	0.83	10
Brantford twp.....	31.17	33-66	60	2.5	1.25	1.11	10
Brechin.....	52.92	33-66	45	5	2	1.67	10
Bridgeport.....	37.25	33-66	50	4	1.5	1.11	10
Brigden.....	65.15	33-66	60	4	2	1.38	10
Brighton.....	37.66	33-66	60	5.3	2	1.11	10
Brockville.....T	30.04	33-66	50	2	1	0.92	10 & 10
Brussels.....	49.86	33-33	50	4.5	2	1.66	10
Burford.....	32.49	33-66	60	2.3	1.2	1.11	10
Burgessville.....	60.43	33-66	50	4	2	1.11	10

\*To distinguish them from the smaller municipalities and suburban districts the cities are indicated by a C and the towns of population 2,000 or more by a T; corresponding to the grouping in Statement "D."

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.



“E”

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2.2	0.6	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	4	1	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3.5	0.75	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	5	1	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	4.5	1	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
7.5	6	1	2.22	10	59.00	1.00	7.1	4.7	0.33	.....	.....	10
5	2.8	0.75	0.83	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	3	0.75	0.83	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
7.5	6	1	1.94	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	5	1	1.39	10	60.00	1.00	7.2	4.8	0.33	.....	.....	10
5	2.3	0.6	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	3	0.75	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2.5	1	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	6	1	3.33	10	.....	.....	.....	.....	.....	.....	.....	.....
5	3	0.75	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.5	1	1.11	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	7	1	1.67	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	3.2	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	2.5	1	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.5	0.75	0.83	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5	4	1	1.11	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	4	1	1.39	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	3.5	1	1.11	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	2.5	0.75	0.83	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	4.5	1	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	5.5	1	1.67	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
.....	†3.5	0.35	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
.....	††1.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5	2.5	0.75	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	4	0.75	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	4	1	1.38	10	48.00	1.00	5.4	3.6	0.33	.....	.....	10
5	5.3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.75	0.92	10&10	19.00	1.00	2	1.4	0.33	.....	25	10
5	4.5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2.3	0.75	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10

†First 30 hours' use per kw-hr.

††Next 70 hours' use per kw-hr.

## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1934, in Urban Municipalities**

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municip- ality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Caledonia.....	30.66	33-66	60	2.3	1.2	0.83	10
Campbellville.....	64.35	33-66	40	6	2	2.22	10
Cannington.....	39.65	33-66	55	3	1.5	1.11	10
Cardinal.....	35.39	33-66	50	3.5	1.5	1.39	10
Carleton Place.....T	32.59	33-66	50	3.5	2	0.83	10
Cayuga.....	51.54	33-66	45	5	2	1.66	10
Chatham.....C	30.40	33-66	60	2.5	1.11	0.83	10
Chatsworth.....	40.96	33-66	40	5	1.5	1.67	10
Chesley.....	33.82	33-66	55	3	1.5	1.11	10
Chesterville.....	42.24	33-66	55	3	1.5	0.83	10
Chippawa.....	25.78	33-66	60	2.5	1.25	1.11	10
Clifford.....	56.04	33-66	50	5	2	1.66	10
Clinton.....	37.30	33-66	60	2.5	1.5	1.11	10
Cobourg.....T	36.76	33-66	50	3.7	2	0.83	10
Colborne.....	38.16	33-66	60	5	2	0.83	10
Coldwater.....	33.80	33-66	55	2.5	1.25	1.11	10
Collingwood.....T	39.48	33-66	55	2.5	1	0.83	10
Comber.....	47.71	33-66	50	4	1.5	1.38	10
Cookstown.....	49.26	33-66	35	6	1.5	1.67	10
Cottam.....	46.32	33-66	50	4	1.5	1.66	10
Courtright.....	69.87	33-66	50	6	1.5	2.22	10
Creemore.....	53.11	33-66	45	5	2	1.66	10
Dashwood.....	52.27	33-66	45	4.5	1.5	1.11	10
Delaware.....	41.20	33-66	50	3.5	1.5	1.11	10
Deseronto.....	50.90	33-66	50	4.5	1.5	1.11	10
Dorchester.....	43.30	33-66	60	2.5	1.4	0.83	10
Drayton.....	57.06	33-66	55	3.5	1.5	1.11	10
Dresden.....	41.74	33-66	60	2.5	1.25	1.11	10
Drumbo.....	43.64	33-66	50	3.5	1.5	1.11	10
Dublin.....	65.25	33-66	60	6	2	1.67	10
Dundalk.....	36.68	33-66	55	3	1.5	1.11	10
Dundas.....T	26.22	33-66	60	2	1	0.83	10
Dunnville.....T	31.08	33-66	60	2.2	1.1	0.83	10
Durham.....	39.11	33-66	50	2.5	1.25	0.83	10
Dutton.....	36.38	33-66	60	2.3	1.1	0.83	10
East Windsor.....C	32.03	.....	60	3.6	1.2	0.83	10
East York.....	31.68	33-66	60	2.2	1.2	0.83	10
Elmira.....T	36.09	33-66	60	3.2	1.3	0.83	10
Elmvale.....	37.83	33-66	55	3	1.5	0.83	10
Elmwood.....	41.27	33-66	45	5	1.5	1.39	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

## "E"—Continued

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2.3	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	6	1	2.22	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3.5	1	1.39	10	40.00	1.00	4.3	2.8	0.33	min. 3.33	.....	10
5	3.5	1	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	5	1	1.66	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.5	0.75	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2.5	1	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	3.7	1	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	5	1	0.83	10	39.00	1.00	4.1	2.7	0.33	.....	.....	10
5	2.5	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.5	1	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	4	1	1.38	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	6	1	1.67	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	4	1	1.66	10	43.00	1.00	4.7	3.1	0.33	min. 2.22	.....	10
7.5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	5	1	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	4.8	1	1.11	10	48.00	1.00	5.4	3.6	0.33	.....	.....	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	4.5	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.5	1	0.83	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5	3.5	0.75	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.5	0.75	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	3.5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	6	1	1.67	10	45.00	1.00	4.9	3.33	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.6	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	2.2	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2.5	1	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.3	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	3.2	0.8	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	5	1	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10



## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1934, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Elora.....	37.81	33-66	55	3	1.5	1.11	10
Embro.....	42.40	33-66	55	3.2	1.5	1.67	10
Erieau.....	52.72	33-66	45	5	1.5	1.67	10
Erie Beach.....	74.12	33-66	50	7	2	1.94	10
Essex.....	35.36	33-66	60	2.5	1.2	0.83	10
Etobicoke twp.....	27.69	33-66	60	2.2	1.2	0.83	10
Exeter.....	39.74	33-66	55	3	1.5	0.83	10
Fergus.....	35.99	33-66	55	3	1.5	1.11	10
Finch.....	58.76	33-66	40	3.5	1.5	1.66	10
Flesherton.....	44.09	33-66	55	3.5	1.5	1.11	10
Fonthill.....	32.03	33-66	55	3	1.5	1.38	10
Forest.....	46.50	33-66	55	3.3	1.3	1.11	10
Fort William.....C	23.83	33-66	50	2.5	1	0.83	10
Galt.....C	28.16		50 60	3.4	1.1	0.83	10
Gamebridge.....		33-66	45	5	2	1.67	10
Georgetown.....T	34.81	33-66	60	2.2	1.1	0.83	10
Glencoe.....	56.74	33-66	55	3.5	2	1.11	10
Glen Williams.....		33-66	60	3	1.5	0.83	10
Goderich.....T	41.27	33-66	55	3	1.5	0.83	10
Grand Valley.....	53.36	33-66	45	5	1.5	1.39	10
Granton.....	55.99	33-66	55	3	1.5	1.11	10
Gravenhurst.....	22.77	33-66	60	2	1	0.83	10
Guelph.....C	27.72	33-33	60	2	1	0.83	10
Hagersville.....	32.30	33-66	60	2	1	0.83	10
Hamilton.....C	25.12	33-66	60	2	1	0.83	10
Hanover.....T	30.92	33-66	55	3	1.5	0.83	10
Harriston.....	41.61	33-66	55	4	1.5	1.11	10
Harrow.....	37.83	33-66	55	2.8	1.3	0.83	10
Hastings.....	48.17	33-66	45	4.5	1.5	1.66	10
Havelock.....	50.71	33-66	50	5	1.5	0.83	10
Hensall.....	51.85	33-66	55	3.5	1.5	1.11	10
Hespeler.....T	28.65	33-66	60	2.7	1.5	0.83	10
Highgate.....	45.02	33-66	50	4	1.5	1.11	10
Holstein.....	124.71	33-66	40	9	2	1.67	10
Humberstone.....	28.41	33-66	60	2.5	1.25	0.83	10
Huntsville.....T	26.14	33-66	55	2.5	1.25	0.83	10
Ingersoll.....T	29.89	33-66	60	2	1.2	0.83	10
Jarvis.....	42.49	33-66	50	4	2	1.11	10
Kemptville.....	39.39	33-66	50	3.5	1.5	0.83	10
Kincardine.....T	48.28	33-66	40	4	2	1.11	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

## "E"—Continued

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	3	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33			10
5	3.2	1	1.67	10	40.00	1.00	4.3	2.8	0.33			10
5	5	1	1.67	10	50.00	1.00	5.7	3.8	0.33	min. 2.22		10
5	7	1	1.94	10	60.00	1.00	7.2	4.8	0.33			10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33			10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33		10	10
5	3	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33			10
5	3	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33			10
5	3.5	1	1.94	10	50.00	1.00	5.7	3.8	0.33			10
5	3.5	1	1.11	10	40.00	1.00	4.3	2.8	0.33			10
5	3	0.75	1.38	10	32.00	1.00	3.1	2	0.33			10
5	3.3	0.75	1.11	10	40.00	1.00	4.3	2.8	0.33			10
5	2.5	1	0.83	10	22.00	1.00	1.75	1	0.1			10
5	2.5	0.6	0.83	10	20.00	1.00	1.6	1	0.33		10	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33			10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33		10	10
5	3.5	1	1.11	10	48.00	1.00	5.4	3.6	0.33			10
5	3	0.75	0.83	10	36.00	1.00	3.7	2.4	0.33			10
5	3	0.75	0.83	10	33.00	1.00	3.2	2.1	0.33			10
5	5	1	1.39	10	45.00	1.00	4.9	3.3	0.33			10
5	3	1	1.11	10	33.00	1.00	3.2	2.1	0.33			10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5	2	0.5	0.83	10	15.00	1.00	1.3	0.8	0.33		25	10
5	2	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33		10	10
	†3.5	0.35	0.83	10	20.00	1.00	1.67	1.11	0.133		10	10
	††1.75											
5	3	1	0.83	10	26.00	1.00	2.2	1.4	0.33			10
5	4	1	1.11	10	32.00	1.00	3.1	2	0.33			10
5	2.8	1	0.83	10	33.00	1.00	3.2	2.1	0.33			10
5	4.5	1	1.66	10	45.00	1.00	4.9	3.3	0.33			10
5	5	1	0.83	10	35.00	1.00	3.5	2.3	0.33			10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33			10
5	2.7	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33		10	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33			10
5	9	1	1.67	10	74.00	1.00	9.3	6.2	0.33			10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33			10
5	2.5	1	0.83	10	25.00	1.00	2	1.3	0.33			10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33		10	10
5	4	0.75	1.11	10	32.00	1.00	3.1	2	0.33			10
5	3.5	1	0.83	10	35.00	1.00	3.5	2.3	0.33			10
5	4	1	1.11	10	30.00	1.00	2.8	1.8	0.33			10

†First 30 hours' use per kw-hr.

††Next 70 hours' use per kw-hr.

## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1934, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Kingston.....C	24.00-36.00	33-66	50	2	1	0.83	10
Kingsville.....T	38.55	33-66	60	3.6	1.2	0.83	10
Kirkfield.....	62.46	33-66	40	6	2	2.22	10
Kitchener.....C	27.19	33-66	60	2	1.2	0.83	10
Lakefield.....	43.67	33-66	50	3	2	0.83	10
Lambeth.....	41.40	33-66	50	3.5	1.5	1.11	10
Lanark.....	44.24	33-66	50	4	2	0.83	10
Lancaster.....	89.78	33-66	60	6	2	1.94	10
La Salle.....	37.04	33-66	60	4	1.5	1.11	10
Leamington.....T	38.06	33-66	60	3.2	1.2	0.83	10
Leaside.....		*3		**2	1.5	0.83	10
Lindsay.....T	40.18	33-66	40	3	1.5	0.83	10
Listowel.....T	35.70	33-66	60	2.5	1.25	1.11	10
London.....C	26.81	33-66	60	2	1	0.83	10
London twp.....	33.90	33-66	55	2.8	1.3	1.11	10
Long Branch.....	28.98	33-66	60	2.2	1.2	0.83	10
Lucan.....	38.83	33-66	55	3.2	1.3	1.11	10
Lucknow.....	56.41	33-66	45	4.5	1.5	1.67	10
Lynden.....	37.38	33-66	55	3.5	1.5	1.38	10
Madoc.....	44.39	33-66	50	3.5	1.5	0.83	10
Markdale.....	34.10	33-66	55	3	1.5	1.11	10
Markham.....	41.48	33-66	55	3.3	1.3	1.11	10
Marmora.....	46.62	33-66	60	5	2	1.11	10
Martintown.....	48.00	33-66	40	5	2	1.66	10
Maxville.....	57.93	33-66	60	6	2	1.66	10
Meaford.....T	40.89	33-66	55	2.8	1.4	0.83	10
Merlin.....	46.06	33-66	50	4	1.5	1.11	10
Merritton.....T	23.78	33-66	60	2	1	0.83	10
Midland.....T	30.05	33-66	60	2	1	0.83	10
Mildmay.....	49.15	33-66	40	4.5	1.5	1.39	10
Milton.....	35.00	33-66	55	3	1.5	0.83	10
Milverton.....	35.01	33-66	60	3	1.5	1.11	10
Mimico.....T	26.30	33-66	60	2.4	1.2	0.83	10
Mitchell.....	34.26	33-33	60	2.5	1.5	0.83	10
Moorefield.....	62.75	33-66	50	4.5	2	1.39	10
Mount Brydges.....	41.24	33-66	55	2.8	1.3	1.11	10
Mount Forest.....	44.79	33-66	60	2.25	1.25	0.83	10
Napanee.....T	36.04	33-66	50	3.8	2	0.83	10
Neustadt.....	100.72	33-66	60	8	2	1.67	10
Newbury.....	51.69	33-66	45	5	1.5	1.38	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

\*Service charge per 100 sq. ft.

\*\*Per kw-hr. for first 3 kw-hrs. per 100 sq. ft.



## "E"—Continued

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2	0.75	0.83	10	20.00	1.00	1.5	1	0.33	.....	10	10
5	2.6	0.75	0.83	10	34.00	1.00	3.4	2.2	0.33	.....	10	10
5	6	1	2.22	10	40.00	1.00	4.3	2.8	0.33	.....	10	10
5	2	0.75	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	3	1	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	3.5	1	1.11	10	36.00	1.00	3.7	2.4	0.33	.....	10	10
5	4	1	1.11	10	60.00	1.00	7.2	4.8	0.33	.....	10	10
5	6	1	2.78	10	69.00	1.00	8.6	5.7	0.33	.....	10	10
5	3.5	1	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	10	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	10	10
.....	§4-2	1	0.83	10	23.28	1.00	1.8	1.1	0.33	.....	10	10
5	3	1	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	10	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2.8	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	3.2	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5	4.5	1	1.67	10	38.00	1.00	4	2.6	0.33	.....	10	10
5	3.5	1.5	0.83	10	32.00	1.00	3.1	2	0.33	.....	10	10
5	4	1	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	10	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5	3.3	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	10	10
5	5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	10	10
5	5	1	2.22	10	55.00	1.00	6.5	4.3	0.33	.....	10	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	.....	10	10
5	2.8	1	0.83	10	29.00	1.00	2.6	1.7	0.33	.....	10	10
5	4	1	1.11	10	37.00	1.00	3.8	2.5	0.33	min. 2.22	10	10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2	1	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	4.5	1	1.39	10	40.00	1.00	4.3	2.8	0.33	.....	10	10
5	3	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	3	1	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	10	10
5	2.4	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	10	10
5	4.5	1	1.39	10	50.00	1.00	5.7	3.8	0.33	.....	10	10
5	2.8	0.75	1.11	10	36.00	1.00	3.7	2.4	0.33	.....	10	10
5	2.25	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	10	10
5	3.8	1	0.83	10	25.00	1.00	2	1.3	0.33	.....	10	10
5	8	1	1.67	10	40.00	1.00	4.3	2.8	0.33	.....	10	10
5	5	1	1.38	10	53.00	1.00	6.2	4.1	0.33	.....	10	10

§First 70 hours' use 4 cents per kw-hr.  
Next 70 hours' use 2 cents per kw-hr.

## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1934, in Urban Municipalities**

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
New Hamburg.....	34.00	33-66	60	3	1.5	0.83	10
New Toronto.....T	28.71	33-66	60	2	1.1	0.83	10
Niagara Falls.....C	21.49	33-66	60	2	1	0.92	10 & 10
Niagara-on-the-Lake	25.44	33-66	60	2.5	1.25	0.83	10
Nipigon twp.....	28.64	33-66	55	3.5	1.25	to 1.11 1.39	10
North York twp.....	32.36	33-66	55	3.5	1.5	1.11	10
Norwich.....	36.00	33-66	60	2.5	1.25	0.83	10
Norwood.....	40.24	33-66	50	5	1.5	1.11	10
Oil Springs.....	43.02	33-66	50	3.5	1.5	1.11	10
Omeme.....	.....	33-66	60	4	1.5	1.11	10
Orangeville.....T	44.98	33-66	55	3	1.5	1.11	10
Oshawa.....C	36.56	.....	45	5	1.5	0.83	10
Ottawa.....C	14.26	33-66	{ 60 60 1 }	2 2 1	0.5	0.83	10
Otterville.....	47.76	33-66	55	3	1.5	1.11	10
Owen Sound.....C	30.68	33-66	60	2.5	1	0.83	10
Paisley.....	54.97	33-66	45	5	1.5	1.67	10
Palmerston.....	37.85	33-66	60	2.7	1.5	1.11	10
Paris.....T	28.49	33-66	60	2	1	0.83	10
Parkhill.....	64.00	33-66	50	4.5	2	1.38	10
Penetanguishene.....T	35.34	33-66	55	3	1.5	0.83	10
Perth.....T	30.70	33-66	55	2.8	1	0.83	10
Peterborough.....C	30.87	33-66	50	2.5	1.25	0.83	10
Petrolia.....T	38.04	33-66	60	2.4	1.1	0.83	10
Pictou.....T	46.19	33-66	60	2.5	1.25	0.83	10
Plattsville.....	54.03	33-66	45	5	2	1.66	10
Point Edward.....	37.18	.....	60	3.7	1.3	0.83	10
Port Arthur.....C	23.39	33-66	30	2	1	0.92	10 & 10
Port Colborne.....T	28.27	33-66	60	2.8	1.25	0.83	10
Port Credit.....	32.84	33-66	60	2.2	1.2	0.83	10
Port Dalhousie.....	29.69	33-66	60	2.2	1.2	0.83	10
Port Dover.....	37.12	33-66	50	2.6	1.2	0.83	10
Port Elgin.....	36.05	33-66	40	3	1.5	1.11	10
Port Hope.....T	37.06	33-66	60	3.5	1.5	0.83	10
Port McNicoll.....	35.44	33-66	50	3.5	1.5	0.83	10
Port Perry.....	47.06	33-66	50	3.5	1.5	1.11	10
Port Rowan.....	58.56	33-66	60	6	2	1.66	10
Port Stanley.....	36.88	33-66	55	2.9	1.4	0.83	10
Prescott.....T	29.93	33-66	60	2	1	0.83	10
Preston.....T	27.74	33-66	60	2.5	1.25	0.83	10
Priceville.....	64.92	33-66	60	8	2	1.67	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

## "E"—Continued

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2	0.35	0.88	15	15.00	1.00	1.3	0.8	0.33	.....	25	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	min.2.00	.....	10
5	3.5	1	1.39	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3.5	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	5	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	3.5	1	1.11	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5	4	1	1.11	10	37.00	1.00	3.8	2.5	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3.5	1	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
.....	†5	0.5	0.83	10	20.00	1.00	1.8	1.2	0.15	.....	15	10
5	†2.2	1	1.11	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	3	1	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	5	1	1.67	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	2.7	1	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	4.5	1	1.38	10	48.00	1.00	5.4	3.6	0.33	.....	.....	10
5	3	1	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.8	1	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.5	1.25	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.4	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5	2.5	1	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	5	1	1.66	10	48.00	1.00	5.4	3.6	0.33	min.2.00	.....	10
5	2.8	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2	0.5	0.92	10 & 10	22.00	1.00	1.75	1	0.1	.....	.....	10
5	2.8	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2.2	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	2.2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.6	1	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3.5	1	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	3.5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3.5	1	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	6	2	1.66	10	60.00	1.00	7.2	4.8	0.33	.....	.....	10
5	2.9	0.75	0.83	10	37.00	1.00	3.8	2.5	0.33	min.1.11	.....	10
5	2	1	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.5	0.75	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	8	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10

†First 30 hours' use per kw-hr.

††Next 70 hours' use per kw-hr.



## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1934, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Princeton.....	47.86	33-66	50	3.5	1.5	1.66	10
Queenston.....	28.04	33-66	65	3	1.5	1.38	10
Richmond.....	53.89	33-66	35	6	2	1.95	10
Richmond Hill.....	34.32	33-66	60	2.2	1.1	0.83	10
Ridgetown.....	37.95	33.66	60	2.2	1.25	0.83	10
Ripley.....	71.09	33-66	50	7	1.5	1.67	10
Riverside.....T	33.19	.....	55	4.2	1.5	0.83	10
Rockwood.....	39.39	33-66	60	2.7	1.25	1.11	10
Rodney.....	52.06	33-66	55	3	1.5	0.83	10
Rosseau.....	95.39	*33	....	8	2	*2.22	10
Russell.....	63.33	33-66	50	6	2	1.39	10
St. Catharines.....C	23.72	33-66	30-60	2	1	0.83	10
St. Clair Beach.....	38.31	.....	55	5.2	1.75	1.66	10
St. George.....	38.35	33-66	55	3	1.25	1.11	10
St. Jacobs.....	34.38	33-66	60	3	1.5	1.11	10
St. Marys.....T	34.86	33-66	60	3	1.5	1.11	10
St. Thomas.....C	28.38	.....	60	2.6	1	0.83	10
Sandwich.....T	32.35	.....	60	3.6	1.2	0.83	10
Sarnia.....C	32.82	.....	60	3.5	1.1	0.83	10
Scarboro twp. ....	31.06	33-33	60	2.6	1.3	0.83	10
Seaforth.....	34.69	33-66	60	2.5	1.25	0.83	10
Shelburne.....	41.23	33-66	50	3	1.5	1.11	10
Simcoe.....T	29.73	33-66	60	2	1.25	0.83	10
Smiths Falls.....T	28.17	33.66	55	3	1.5	0.83	10
Southampton.....	33.80	33-66	40	3	1.5	1.11	10
Springfield.....	53.78	33-66	55	3.5	1.5	1.11	10
Stamford twp.....	22.09	33-66	60	2.25	1.25	0.83	10
Stayner.....	39.28	33-66	55	2.5	1.25	0.83	10
Stirling.....	30.76	33-66	45	2.5	1.25	0.83	10
Stouffville.....	46.11	33-66	55	3.2	1.3	1.11	10
Stratford.....C	29.46	.....	60	3.4	1.25	0.83	10
Strathroy.....T	32.36	33-66	60	2.5	1.25	0.83	10
Sunderland.....	52.65	33-66	45	5	1.5	1.39	10
Sutton.....	52.70	33-33	50	4	2	1.11	10
Tara.....	43.36	33-66	40	4	2	1.11	10
Tavistock.....	34.33	33-66	60	2.5	1.25	0.83	10
Tecumseh.....T	36.29	.....	55	4.7	1.75	1.11	10
Teeswater.....	54.55	33-66	60	5	1.5	1.67	10
Thamesford.....	37.23	33-66	60	2.4	1.2	1.11	10
Thamesville.....	38.25	33-66	55	2.6	1.2	0.83	10
Thedford.....	66.88	33-66	50	5	2	1.66	10
Thorndale.....	67.08	33-66	50	4	2	1.38	10
Thornton.....	60.04	33-66	60	8	2	1.67	10
Thorold.....T	25.48	33-66	60	2	1	0.83	10
Tilbury.....	37.58	33-66	60	2.2	1.2	0.83	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

\*According to consumers' demand.

## "E"—Continued

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	3.5	1	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3	1	1.38	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	6	1	2.22	10	60.00	1.00	7.2	4.8	0.33	.....	.....	10
5	2.2	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	2.2	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	7	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3	0.8	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2.7	0.75	1.11	10	42.00	1.00	4.6	3	0.33	.....	.....	10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	8	2	2.22	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10
5	5	1	1.94	10	56.00	1.00	6.6	4.4	0.33	.....	.....	10
.....	†3.5	0.35	0.83	10	17.00	1.00	1.67	1.13	0.16	.....	25	10
.....	†1.75											
5	4	1	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3	0.75	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3	1	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	3	0.1	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.4	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.4	0.6	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3	1	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3.5	1	1.11	10	42.00	1.00	4.6	3	0.33	.....	.....	10
5	2.25	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2.5	1	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2.5	1	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	3.2	1	1.11	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	2.3	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	2.5	0.75	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	5	1	1.39	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	4	1	1.11	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	4	1	1.11	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	2.5	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3.5	0.8	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	5	1	1.67	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.4	0.75	1.11	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5	2.6	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
7.5	5	1	1.66	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	4	1	1.38	10	48.00	1.00	5.4	3.6	0.33	.....	.....	10
5	8	1	1.67	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10
5	2	0.5	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	2.2	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10

†First 30 hours' use per kw-hr.

††Next 70 hours' use per kw-hr.

## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1934, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
Tillsonburg.....T	\$ c. 34.46	cents 33-66	60	cents 2	cents 1.2	\$ c. 0.83	% 10
Toronto.....C	26.13	*3	....	**2	1	0.83	10
Toronto twp.....	30.89	33-66	55	2.7	1.3	1.11	10
Tottenham .....	93.85	33-66	30	7	2	1.67	10
Trafalgartwp., Area 1 .....	.....	55	60	3.5	2	1.11	10
Trafalgartwp., Area 2 .....	.....	44-66	55	3.5	2	1.38	10
Trenton.....T	28.05	33-66	50	3.5	1.5	0.83	10
Tweed.....	57.17	33-33	60	5.5	2	1.11	10
Uxbridge.....	48.35	33-66	50	3.5	1.5	1.11	10
Victoria Harbour.....	39.66	33-66	55	3	1.5	1.11	10
Walkerton.....T	33.11	33-66	50	3.3	1.5	1.11	10
Walkerville.....T	29.25	.....	60	3.6	1.2	0.83	10
Wallaceburg.....T	36.05	33-66	60	2.5	1.2	0.83	10
Wardsville.....	61.64	33-66	40	6	2	1.66	10
Warkworth.....	47.68	33-66	50	5	1.5	1.55	10
Waterdown.....	31.27	33-66	60	2.5	1.25	0.83	10
Waterford.....	30.90	33-66	60	2	1	0.83	10
Waterloo.....T	28.06	33-66	60	2	1.25	0.83	10
Watford.....	50.26	.....	55	4.5	1.5	1.11	10
Waubashene.....	39.43	33-66	55	2.5	1.25	1.11	10
Welland.....C	24.35	33-66	60	2.2	1.1	0.83	10
Wellesley.....	49.73	33-66	50	4	2	1.11	10
Wellington.....	43.37	33-66	50	2.5	1.25	0.83	10
West Lorne.....	43.27	33-66	55	2.8	1.3	0.83	10
Weston.....T	27.02	33-66	60	2	1	0.83	10
Westport.....	72.71	33-66	30	7	2	2.78	10
Wheatley.....	53.40	33-66	50	4	1.5	1.39	10
Whitby.....T	36.34	33-66	60	3	1.25	0.94	20
Wiarton.....	61.73	33-66	40	5	2	1.67	10
Williamsburg .....	33.56	33-66	60	2.5	1.3	1.11	10
Winchester.....	36.47	33-66	60	2.5	1.25	0.83	10
Windermere.....	61.94	†33	....	8	2	‡2.22	10
Windsor.....C	29.04	.....	60	3.6	1.2	0.83	10
Wingham.....	53.91	33-66	45	4	1.5	1.11	10
Woodbridge.....	34.07	33-66	55	3	1.5	0.83	10
Woodstock.....C	28.42	33-66	60	2	1	0.83	10
Woodville.....	55.94	33-66	50	4	1.5	1.11	10
Wyoming.....	53.18	33-66	50	4.5	1.5	1.38	10
Yorktp.(inc.Swansea and Forest Hill)....	.....	33-66	60	2	1.3	0.83	10
Zurich.....	64.09	33-66	50	4.5	2	1.38	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

\*Service charge per 100 sq. ft.

\*\*Per kw-hr. for first 3 kw-hrs. per 100 sq. ft.

‡According to consumers' demand.



## "E"—Concluded

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents 5	cents 2	cents 0.6	\$ c. 0.83	% 10	\$ c. 24.00	\$ c. 1.00	cents 2.3	cents 1.5	cents 0.33	\$ c. ....	% 10	% 10
.....	\$4 & 2	1	0.83	10	.....	a D.C.	2.5	1.25	0.60	.....	.....	10
5	2.7	0.7	1.11	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	7	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
.....	†8	1	1.11	10	37.00	1.00	3.5	2.3	1	.....	.....	10
.....	††4											
5	3.5	1.5	1.38	10	38.00	1.00	3.5	2.3	1.5	.....	.....	10
5	3.5	1	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	5.5	1	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3.3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.5	0.7	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	6	1	1.66	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	5	1	1.55	10	44.50	1.00	4.9	3.3	0.33	.....	.....	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.25	1	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	4	1	1.11	10	42.00	1.00	4.6	3	0.33	.....	.....	10
5	2.5	1	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	2.2	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	2.5	1	0.83	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	2.8	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	7	1	2.78	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	4	1	1.39	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.6	3	1	0.94	20	25.00	1.00	2	1.3	0.33	.....	.....	10
5	5	1	1.67	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	2.5	1	1.11	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	2.5	1	0.83	10	40.00	1.00	4.3	2.8	0.33	min. 2.22	.....	10
5	8	2	2.22	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	3	1	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	4.5	1	1.38	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	4.5	1	1.38	10	50.00	1.00	5.7	3.8	0.33	min. 2.77	.....	10

§First 70 hours' use 4 cents per kw-hr.

Next 70 hours' use 2 cents per kw-hr.

a. D.C. Service charge \$1.35 per h.p. for first 10 h.p., plus \$1.00 per h.p. for additional h.p.

b. A.C. Service charge \$1.25 per h.p. for first 10 h.p., plus \$1.00 per h.p. for additional h.p.

†First 30 hours' use per kw-hr.

††Next 70 hours' use per kw-hr.



## APPENDIX I

### ACTS

#### CHAPTER 42

#### An Act to amend The Power Commission Act

*Assented to April 3rd, 1934.*

**H**IS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. This Act may be cited as *The Power Commission Act, 1934*. Short title.

2. Section 36 of *The Power Commission Act* is amended by adding at the end thereof the following words: Rev. Stat.,  
c. 57, s. 36,  
amended.

“and the said purposes of the Commission shall, without limiting the generalities thereof, include repayment on account of the advances by the Province to the Commission.”

3. This Act shall come into force on the day upon which it receives the Royal Assent. Commence-  
ment of Act.



# APPENDIX

## TOTAL MILEAGE OF TRANSMISSION LINES AND NUMBER OF

System and voltage	Line route miles		
	Total to Oct. 31, 1933	Additions 1934	Total to Oct. 31, 1934
Niagara system—220,000-volt.....	705.27	.....	705.27
Northern Ontario properties—132,000-volt.....	360.61	1.35	361.96
Northern Ontario properties—132,000-volt.....	.....	94.86	94.86
Niagara system—110,000-volt.....	713.70	.....	713.70
Niagara system—110,000-volt.....	67.16	.....	67.16
Eastern Ontario system—110,000-volt.....	52.94	54.14	107.08
Eastern Ontario system—110,000-volt.....	37.18	2.64	39.82
Eastern Ontario system—44,000-volt.....	24.33	.....	24.33
Thunder Bay system—110,000-volt.....	82.12	.....	82.12
Thunder Bay system—110,000-volt.....	81.79	1.54	83.33
Thunder Bay system—22,000-volt.....	0.35	.....	0.35
Thunder Bay system—12,000-volt.....	1.45	.....	1.45
Georgian Bay system—110,000-volt.....	55.83	.....	55.83
Niagara system—90,000-volt.....	65.85	.....	65.85
Niagara system—60,000-volt.....	94.23	.....	94.23
Niagara system—60,000-volt.....	23.72	.....	23.72
Niagara system—46,000-volt.....	16.94	.....	16.94
Niagara system—46,000-volt.....	21.54	.....	21.54
Niagara system—30,000-volt.....	13.29	.....	13.29
Niagara system—26,400-volt.....	606.62	5.15	611.77
Niagara system—13,200-volt.....	434.73	0.17	434.90
Niagara system—13,200-volt.....	0.71	.....	0.71
Niagara system—12,000-volt.....	115.04	*1.09	113.95
Dominion Power system—44,000-volt.....	37.35	.....	37.35
Dominion Power system—44,000-volt.....	140.60	.....	140.60
Dominion Power system—22,000-volt.....	28.69	.....	28.69
Dominion Power system—22,000-volt (concrete poles).....	9.05	.....	9.05
Dominion Power system—10,000-volt.....	11.23	.....	11.23
Georgian Bay system—38,000-volt.....	54.28	.....	54.28
Georgian Bay system—6,600-volt.....	2.30	.....	2.30
Georgian Bay system—			
Severn district—22,000-volt.....	177.01	*0.45	176.56
Eugenia district—26,400-volt and less.....	321.73	.....	321.73
Wasdells district—22,000-volt.....	83.72	.....	83.72
Muskoka district—38,000-volt and less.....	26.46	.....	26.46
Eastern Ontario system—			
Central district—44,000-volt and less.....	503.06	.....	503.06
St. Lawrence district—44,000-volt.....	125.18	1.61	126.79
Rideau district—26,400-volt.....	76.87	.....	76.87
Madawaska district—33,000-volt and less.....	58.71	.....	58.71
Northern Ontario properties—			
Abitibi district—26,400-volt and less.....	.....	5.44	5.44
Nipissing district—22,000-volt.....	51.39	.....	51.39
Sudbury district—22,000-volt.....	33.23	.....	33.23
Totals.....	5,316.26	†165.36	5,481.62

\*—Removals. †—Net increase.

## II

## SUPPORTING STRUCTURES CONSTRUCTED AND ACQUIRED

Circuit miles			Number of steel towers			Number of wood poles		
Total to Oct. 31, 1933	Additions 1934	Total to Oct. 31, 1934	Total to Oct. 31, 1933	Additions 1934	Total to Oct. 31, 1934	Total to Oct. 31, 1933	Additions 1934	Total to Oct. 31, 1934
705.27	.....	705.27	3,522	.....	3,522	.....	.....	.....
721.22	2.70	723.92	1,867	6	1,873	.....	.....	.....
.....	94.86	94.86	.....	.....	.....	.....	1,373	1,373
1,372.76	.....	1,372.76	6,555	7	6,562	.....	.....	.....
67.16	.....	67.16	.....	.....	.....	824	.....	824
55.57	54.82	110.39	299	336	635	.....	.....	.....
37.18	2.64	39.82	.....	.....	.....	556	29	585
24.33	.....	24.33	.....	.....	.....	286	.....	286
164.28	.....	164.28	539	.....	539	.....	.....	.....
81.79	1.54	83.33	.....	.....	.....	1,320	32	1,352
0.35	.....	0.35	.....	.....	.....	15	.....	15
1.45	.....	1.45	.....	.....	.....	61	.....	61
55.83	.....	55.83	.....	.....	.....	548	.....	548
131.70	*2.70	129.00	409	.....	409	.....	.....	.....
80.27	.....	80.27	947	*6	941	.....	.....	.....
23.72	.....	23.72	.....	.....	.....	641	.....	641
50.16	.....	50.16	376	.....	376	.....	.....	.....
21.54	.....	21.54	.....	.....	.....	672	.....	672
26.58	.....	26.58	.....	.....	.....	612	.....	612
770.60	5.15	775.75	.....	.....	.....	23,504	189	23,693
535.25	*15.42	519.83	.....	.....	.....	17,587	*2	17,585
1.42	.....	1.42	16	.....	16	.....	.....	.....
181.74	*3.48	178.26	7	.....	7	5,018	103	5,121
71.46	.....	71.46	526	.....	526	.....	.....	.....
136.98	.....	136.98	.....	.....	.....	5,116	.....	5,116
34.19	.....	34.19	.....	.....	.....	1,289	.....	1,289
18.10	.....	18.10	.....	.....	.....	253	.....	253
11.23	.....	11.23	.....	.....	.....	485	.....	485
54.28	.....	54.28	.....	.....	.....	684	.....	684
2.30	.....	2.30	.....	.....	.....	101	.....	101
274.99	*0.52	274.47	.....	.....	.....	7,593	*104	7,489
404.62	.....	404.62	.....	.....	.....	12,648	.....	12,648
87.66	.....	87.66	.....	.....	.....	3,267	.....	3,267
26.46	.....	26.46	.....	.....	.....	1,148	.....	1,148
554.29	.....	554.29	2	.....	2	17,993	.....	17,993
125.18	1.61	126.79	.....	.....	.....	4,334	73	4,407
76.87	.....	76.87	.....	.....	.....	2,870	.....	2,870
58.71	.....	58.71	.....	.....	.....	1,965	.....	1,965
.....	5.44	5.44	.....	.....	.....	.....	199	199
67.91	.....	67.91	.....	.....	.....	1,841	.....	1,841
33.23	.....	33.23	.....	.....	.....	1,396	.....	1,396
7,148.63	†146.64	7,295.27	15,065	†343	15,408	114,627	†1,892	116,519

## APPENDIX II

### LINES FOR THE USE OF

System	Total route miles			Miles of single-circuit line		
	Completed to Oct. 31, 1933	Completed Oct. 31, 1933 to Oct. 31, 1934	Total to Oct. 31, 1934	Completed to Oct. 31, 1933	Completed Oct. 31, 1933 to Oct. 31, 1934	Total to Oct. 31, 1934
Niagara system.....	*703.52		703.52	320.11		320.11
Georgian Bay system.....						
Eastern Ontario system.....	*8.35		8.35	6.87	-1.37	5.50
Thunder Bay system.....						
Northern Ontario properties.....	159.00	87.06	246.06	159.00	86.04	245.04
Totals.....	†870.87	87.06	957.93	485.98	84.67	570.65

\*Included in totals 1.30 miles 8-circuit line and 0.18 miles of 7-circuit line (E.O. system).

†This total exclusive of cable.

### TELEPHONE CIRCUITS CARRIED

System	Total route miles			Miles of single-circuit		
	Completed to Oct. 31, 1933	Completed Oct. 31, 1933 to Oct. 31, 1934	Total to Oct. 31, 1934	Completed to Oct. 31, 1933	Completed Oct. 31, 1933 to Oct. 31, 1934	Total to Oct. 31, 1934
Niagara system and N A.....	1,068.88	-6.60	1,062.28	976.42	-1.13	975.29
Georgian Bay system.....	708.89	0.42	709.31	637.11	8.52	645.63
Eastern Ontario system.....	772.11	43.40	815.51	694.30	38.61	732.91
Thunder Bay system.....	96.41	1.45	97.86	96.41	1.45	97.86
Northern Ontario properties.....	115.03	133.21	248.24	114.50	133.21	247.71
Totals.....	2,761.32	171.88	2,933.20	2,518.74	180.66	2,699.40

Derived (carrier and phantom) circuits to Oct. 31, 1933—Niagara system—454.19 miles

Derived (carrier and phantom) circuits to Oct. 31, 1934—Niagara system—453.48 miles

These circuits are additional to the above tabulation but are made available by utilizing listed



Concluded

TELEPHONE CIRCUITS ONLY

Miles of double-circuit line			Miles of three-circuit line			Miles of four-circuit line			Miles of telephone cable		
Completed to Oct. 31, 1933	Completed Oct. 31, 1933 to Oct. 31, 1934	Total to Oct. 31, 1934	Completed to Oct. 31, 1933	Completed Oct. 31, 1933 to Oct. 31, 1934	Total to Oct. 31, 1934	Completed to Oct. 31, 1933	Completed Oct. 31, 1933 to Oct. 31, 1934	Total to Oct. 31, 1934	Completed to Oct. 31, 1933	Completed Oct. 31, 1933 to Oct. 31, 1934	Total to Oct. 31, 1934
273.29		273.29	9.08		9.08	95.24		95.24	27.56		27.56
	1.37	1.37									
	1.02	1.02									
273.29	2.39	275.68	9.08		9.08	95.24		95.24	27.56		27.56

Also 5.80 miles of 6-circuit line in Niagara system.

JOINTLY WITH POWER CIRCUITS

Miles of double-circuit			Miles of three-circuit			Miles of four-circuit			Miles telephone cable		
Completed to Oct. 31, 1933	Completed Oct. 31, 1933 to Oct. 31, 1934	Total to Oct. 31, 1934	Completed to Oct. 31, 1933	Completed Oct. 31, 1933 to Oct. 31, 1934	Total to Oct. 31, 1934	Completed to Oct. 31, 1933	Completed Oct. 31, 1933 to Oct. 31, 1934	Total to Oct. 31, 1934	Completed to Oct. 31, 1933	Completed Oct. 31, 1933 to Oct. 31, 1934	Total to Oct. 31, 1934
89.76	-8.22	81.54	2.70	1.75	4.45		1.00	1.00			
56.97	-0.34	56.63	14.81	-7.76	7.05						
77.81	4.79	82.60									
0.53		0.53									
225.07	-3.77	221.30	17.51	-6.01	11.50		1.00	1.00			

Eastern Ontario system—12.70 miles.

Eastern Ontario system—12.70 miles.

physical circuits.

## APPENDIX III

### DISTRIBUTION LINES AND SYSTEMS

#### Summaries of Data respecting Rural Distribution Systems, constructed by The Hydro-Electric Power Commission

Below is shown in tabular form the work carried on under the supervision of the Distribution section of the Electrical Engineering department during the year ended October 31, 1934.

#### SUMMARY OF CONSTRUCTION IN RURAL POWER DISTRICTS

System	At October 31, 1933		At October 31, 1934	
	Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM.....	6,640.93	45,293	6,754.26	46,282
GEORGIAN BAY SYSTEM—				
Severn district.....	279.40	2,519	283.16	2,676
Eugenia district.....	207.16	1,072	212.47	1,118
Wasdells district.....	227.35	1,534	231.45	1,570
Muskoka district.....	105.12	592	114.69	656
Bala district.....	35.55	222	41.27	252
EASTERN ONTARIO SYSTEM—				
Central Ontario district.....	960.59	6,768	994.03	7,094
St. Lawrence district.....	393.52	2,380	398.49	2,423
Rideau district.....	75.53	458	77.40	486
Madawaska district.....	10.09	65	11.21	63
Ottawa district.....	181.87	1,092	183.84	1,127
THUNDER BAY SYSTEM.....	78.30	262	80.96	289
NORTHERN ONTARIO PROPERTIES—				
Nipissing district.....	12.07	313	14.62	352
Manitoulin district.....	37.25	180	37.25	184
Total.....	9,244.73	62,750	9,435.10	64,572

## DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS

Rural power district	Property number	At October 31, 1933		At October 31, 1934	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM					
Acton.....	N5D1	8.00	26	8.85	27
Ailsa Craig.....	N4D7	6.00	19	6.00	19
Alvinston.....	N18D9	4.50	10	4.50	11
Amherstburg.....	N15D3	66.62	594	67.02	597
Aylmer.....	N11D2	110.95	623	112.45	650
Ayr.....	N12D4	23.76	87	23.76	93
Baden.....	N7D1	96.87	449	97.17	458
Beamsville.....	N44D3	156.60	1,489	159.32	1,491
Belle River.....	N15D2	43.83	368	43.83	367
Blenheim.....	N14D3	59.44	323	60.47	330
Bond Lake.....	N3D3	161.50	1,556	165.69	1,612
Bothwell.....	N14D10	37.58	136	39.39	145
Brampton.....	N13D2	51.62	172	52.93	189
Brant.....	N12D1	110.56	565	112.69	596
Brigden.....	N18D8	36.61	114	36.61	114
Burford.....	N12D2	49.70	268	50.80	282
Caledonia.....	N2D5	102.52	496	103.09	516
Chatham.....	N14D1	142.71	815	143.51	824
Chippawa.....	N1D7	25.73	178	25.98	179
Clinton.....	N8D11	70.33	395	70.53	399
Delaware.....	N4D3	130.54	643	139.59	677
Dorchester.....	N4D1	109.84	586	111.16	595
Dresden.....	N14D12	24.23	89	24.23	90
Drumbo.....	N12D5	56.38	269	58.98	278
Dundas.....	N2D1	110.27	762	114.02	773
Dunnville.....	N1D9	18.00	97	19.33	103
Dutton.....	N11D3	46.85	195	47.40	202
Elmira.....	N7D3	24.20	93	24.45	93
Elora.....	N5D4	46.17	272	47.36	279
Essex.....	N15D7	88.04	455	88.04	458
Exeter.....	N4D6	68.43	622	68.43	648
Forest.....	N18D6	41.35	151	41.65	154
Galt.....	N6D2	38.98	308	39.73	317
Georgetown.....	N5D2	57.50	284	57.56	286
Goderich.....	N8D2	49.33	214	49.83	219
Grantham.....	N44D1	63.66	798	64.28	833
Guelph.....	N5D3	92.10	555	94.62	476
Haldimand.....	N2D8	50.33	296	57.89	318
Harriston.....	N8D5	23.75	73	23.75	71
Harrow.....	N15D4	67.59	621	68.50	645
Ingersoll.....	N10D3	186.29	665	181.25	680
Jordan.....	N44D2	35.44	380	37.09	407
Keswick.....	N3D5	57.49	1,020	58.10	1,063
Kingsville.....	N15D5	132.55	1,362	132.62	1,408
Listowel.....	N8D8	80.15	392	80.35	400



## DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1933		At October 31, 1934	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM—Concluded					
London.....	N4D2	192.58	2,078	195.77	2,157
Lucan.....	N4D5	33.68	124	33.68	124
Lynden.....	N2D2	56.57	263	54.89	250
Markham.....	N3D1	115.60	879	121.34	924
Merlin.....	N14D15	92.93	325	92.93	328
Milton.....	N13D3	65.20	346	68.06	347
Milverton.....	N8D9	41.27	187	41.42	192
Mitchell.....	N8D7	69.31	384	69.81	382
Newmarket.....	N3D4	64.41	380	65.67	400
Niagara.....	N1D1	48.03	309	49.13	316
Norwich.....	N10D1	108.77	484	111.89	488
Oil Springs.....	N18D3	20.81	114	20.81	114
Palmerston.....	N8D6	38.06	138	38.06	138
Petrolia.....	N18D5	14.98	59	14.98	59
Preston.....	N6D1	143.86	1,000	145.80	1,035
Ridgetown.....	N14D2	104.62	698	104.88	711
St. Marys.....	N9D1	115.01	454	115.60	452
St. Jacobs.....	N7D2	68.92	383	69.94	388
St. Thomas.....	N11D1	164.50	1,149	168.42	1,155
Saltfleet.....	N17D1	93.40	1,546	94.07	1,534
Sandwich.....	N15D1	128.43	2,074	129.53	2,057
Sarnia.....	N18D4	87.59	1,185	87.78	1,209
Scarboro.....	N3D2	82.91	736	86.56	793
Seaforth.....	N8D10	16.60	157	16.60	155
Simcoe.....	N12D6	73.92	387	74.52	402
Stamford.....	N44D4	12.37	288	8.37	291
Stratford.....	N8D4	37.17	226	37.17	229
Strathroy.....	N4D4	78.70	250	78.95	258
Streetsville.....	N13D1	104.19	466	104.49	467
Tavistock.....	N8D1	80.53	321	81.33	329
Thamesville.....	N14D11	68.06	274	68.31	277
Tilbury.....	N14D14	63.34	273	63.34	276
Tillsonburg.....	N10D4	111.03	574	114.66	603
Wallaceburg.....	N14D13	85.29	545	86.52	559
Walsingham.....	N12D7	88.43	481	107.56	552
Walton.....	N8D3	42.87	281	42.87	277
Waterdown.....	N2D3	69.53	921	71.03	935
Waterford.....	N12D3	70.65	335	71.31	331
Watford.....	N18D7	17.55	57	17.75	57
Welland.....	N1D5	281.39	2,627	286.50	2,687
Woodbridge.....	N16D1	195.96	1,008	197.69	1,016
Woodstock.....	N10D2	127.02	642	129.47	656

## DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1933		At October 31, 1934	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
GEORGIAN BAY SYSTEM					
SEVERN DISTRICT					
Alliston.....	S32D1	23.57	148	23.57	148
Barrie.....	S4D1	60.88	480	61.10	500
Beeton.....	S33D1	1.80	5	1.80	5
Bradford.....	S37D1	27.07	86	27.07	88
Buckskin.....	S24D1	1.20	17	1.20	16
Cookstown.....	S35D1	0.50	2	0.50	2
Creemore.....	S10D2	29.87	135	30.12	135
Elmvale.....	S7D1	25.50	158	25.50	160
Hawkestone.....	S9D1	26.80	160	28.95	178
Innisfil.....	S31D1	28.43	504	29.08	587
Medonte.....	S18D1	9.31	55	9.14	55
Midland.....	S1D1	12.13	43	12.23	43
Nottawasaga.....	S5D1	7.89	93	8.22	98
Thornton.....	S36D1	8.00	30	8.00	30
Wasaga Beach.....	S10D1	16.45	603	16.68	631
EUGENIA DISTRICT					
Arthur.....	E13D2	2.40	9	2.40	10
Bruce.....	E19D1	57.87	265	60.35	279
Chatsworth.....	E3D1	0.00	22	0.00	22
Flesherton.....	E1D1	2.60	39	2.60	38
Holstein.....	E7D1	0.50	9	0.50	8
Lucknow.....	E24D1	0.11	2	0.11	2
Markdale.....	E1D2	19.60	85	20.70	89
Meaford.....	E14D1	1.00	5	1.00	5
Neustadt.....	E8D1	0.50	4	0.50	4
Orangeville.....	E12D1	22.50	93	22.88	93
Owen Sound.....	E2D1	5.62	40	5.52	50
Ripley.....	E24D2	4.32	14	4.32	13
Shelburne.....	E10D1	18.44	53	18.44	56
Sauble.....	E46D1	10.00	46	11.45	56
Tara.....	E15D1	25.75	112	25.75	115
Wroxeter.....	E22D1	35.95	274	35.95	278
WASDELLS DISTRICT					
Beaverton.....	W2D1	27.02	330	27.26	337
Cannington.....	W3D1	9.15	52	10.09	50
Mariposa.....	W9D1	47.39	312	48.19	323
Port Perry.....	W12D1	49.09	358	49.42	375
Sparrow Lake.....	W1D1	32.55	254	34.34	255
Uxbridge.....	W11D1	62.15	228	62.15	230
MUSKOKA DISTRICT					
Beaumaris.....	M7D1	24.66	231	29.25	252
Baysville.....	M10D1	31.25	134	32.23	150
Gravenhurst.....	M4D1	2.30	13	2.90	21
Huntsville.....	M2D1	27.20	99	28.70	106
Utterson.....	M8D1	19.71	115	21.61	127
BALA DISTRICT					
Bala.....	GB13D1	35.55	222	41.27	252

## DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1933		At October 31, 1934	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
EASTERN ONTARIO SYSTEM					
CENTRAL ONTARIO DISTRICT					
Belleville.....	C38D1	84.28	680	85.00	694
Bowmanville.....	C23D1	28.93	131	29.16	132
Brighton.....	C6D1	10.15	62	10.65	62
Campbellford.....	C11D1	21.50	79	21.59	81
Cobourg.....	C13D1	94.01	458	97.22	484
Colborne.....	C7D1	31.37	160	36.75	222
Fenelon Falls.....	C30D1	19.32	127	24.24	140
Kingston.....	C44D1	122.00	730	122.49	765
Lakefield.....	C18D1	25.37	97	28.59	112
Lindsay.....	C29D1	20.23	120	21.35	137
Millbrook.....	C25D1	19.08	113	20.73	129
Napanee.....	C43D1	110.35	539	110.22	548
Newcastle.....	C22D1	27.08	121	29.45	129
Norwood.....	C31D1	7.70	61	8.03	63
Oshawa.....	C24D1	113.68	1,509	117.86	1,552
Omeme.....	C26D1	3.00	2	5.22	11
Peterboro.....	C20D1	62.90	1,072	63.84	1,108
Stirling.....	C35D1	27.81	110	27.81	114
Trenton.....	C3D1	41.55	201	42.82	206
Warkworth.....	C49D1	0.40	6	0.40	6
Wellington.....	C45D1	89.88	390	90.61	399
ST. LAWRENCE DISTRICT					
Alexandria.....	L15D1	20.33	106	20.33	107
Brockville.....	L3D1	96.71	664	99.17	673
Chesterville.....	L5D1	47.52	349	47.82	353
Iroquois.....	L9D1	90.42	434	90.42	437
Martintown.....	L13D1	21.79	142	23.66	145
Maxville.....	L14D2	62.07	384	62.07	394
Prescott.....	L2D1	37.07	201	37.07	206
Williamsburg.....	L7D1	17.61	100	17.95	108
RIDEAU DISTRICT					
Carleton Place.....	H5D1	0.50	2	0.50	2
Kemptville.....	H9D1	5.43	44	5.43	44
Perth.....	H2D1	15.07	59	15.92	76
Smiths Falls.....	H3D1	54.53	353	55.55	364
MADAWASKA DISTRICT					
Arnprior.....	QM10D1	4.97	55	4.97	53
Renfrew.....	QM16D1	5.12	10	6.24	10
OTTAWA DISTRICT					
Nepean.....	T1D1	181.87	1,092	183.84	1,127
THUNDER BAY SYSTEM					
Fort William.....	P10D1	48.63	143	51.41	157
Port Arthur.....	P2D1	29.67	119	29.55	132



DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Concluded

Rural power district	Property number	At October 31, 1933		At October 31, 1934	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service

MANITOULIN RURAL POWER DISTRICT

Manitoulin.....	FM1D1	37.25	180	37.25	184
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NORTHERN ONTARIO PROPERTIES

NIPISSING DISTRICT					
North Bay.....	Z4D1	8.82	302	11.37	340
Powassan.....	Z8D1	3.25	11	3.25	12

## APPENDIX IV

### ROYAL COMMISSION RE ABITIBI INQUIRY

#### REPORT OF COMMISSIONERS

*To His Honour the Lieutenant-Governor of the  
Province of Ontario, in Council:*

We, the undersigned Francis Robert Latchford, Chief Justice in Appeal of the Supreme Court of Ontario, and Robert Smith, a retired Justice of the Supreme Court of Canada, have the honour to report as follows:—

That pursuant to Chapter 20 of the Revised Statutes of Ontario, 1927, entitled “The Public Inquiries Act” we were appointed by a Royal Commission dated July 12, 1934, with all the powers authorized by the said Act,—

“To inquire into the purchase of the bonds of the Ontario Power Service Corporation by the Hydro-Electric Power Commission of Ontario and the Government of Ontario, and the payment therefor in the bonds of the Hydro-Electric Power Commission of Ontario, and all the circumstances connected therewith.

“And without restricting the generality of the foregoing, to inquire into all arrangements, contracts and agreements and all circumstances connected with the granting by the Province of Ontario of power rights on the Abitibi River, to the Ontario Power Service Corporation, or its predecessors, and the acquiring of the same by the said Ontario Power Service Corporation and its predecessors.

“And to inquire into the purchase of power by the Hydro-Electric Power Commission of Ontario from the Ontario Power Service Corporation, or its predecessors, and into any or all guarantees given by the Province of Ontario, to the Hydro-Electric Power Commission of Ontario, or the Ontario Power Service Corporation, in connection therewith, and into all arrangements, undertakings and agreements between the said Ontario Power Service Corporation, the Hydro-Electric Power Commission of Ontario and the Government of Ontario. And to inquire into the transactions and dealings in securities of the Ontario Power Service Corporation, the Abitibi Power

“and Paper Company, Limited, and in securities of all other Corporations dealing in power in the Dominion of Canada, which have had dealings with the Hydro-Electric Power Commission, or the Province of Ontario, by any former member of the Executive Council of Ontario and by any former member of the Hydro-Electric Power Commission of Ontario, and by the officers, servants and agents of any of the aforesaid bodies, or members thereof, and by any and all Corporations of which they, or any of them, were, or are officers or directors, and by all persons and Corporations having such activities, transactions and dealings with the above named.

“And into all acts done and steps taken by any and all persons in promotion of, preparation for, carrying out of, or in pursuance of, the matters and things above mentioned, and into the propriety thereof.

“To report the evidence and facts brought out by the within investigation, together with your findings and recommendations.”

We opened the Commission at the Hydro-Electric Power Commission Board Room in Toronto on July 13th, at 10.00 a.m. The Honourable A. W. Roebuck, K.C., Attorney-General for Ontario, was present and informed us that the Government of the Province had appointed as its counsel Mr. Arthur G. Slaght, K. C., and the Honourable T. B. McQuesten, Minister of Highways, who was also present, stated that the Hydro-Electric Power Commission would be represented by Mr. J. C. McRuer, K. C. We then appointed Mr. F. J. MacRae, Barrister of Toronto, to act as Registrar.

The Chairman announced that all meetings would be held in public, and that the fullest facilities would be accorded to the public for presenting in evidence all matters within the scope of the Commission.

The Attorney-General further informed the Commission that the largest room available for the sittings of the Commission was the Master's court room at Osgoode Hall, which, with the consent of the Master, would be at the Commission's disposal.

The Commission then adjourned to the Master's court room, where the proceedings were resumed at 12.00 o'clock noon.

There were then present the Honourable Mr. Roebuck, the Honourable Mr. McQuesten, Mr. A. G. Slaght, with Mr. Eric Cross as his assistant. Mr. J. C. McRuer and Mr. A. G. Harvie appeared for the Hydro-Electric Power Commission of Ontario.

Mr. Sydney W. Brown of the reporting staff of the Supreme Court of Ontario was appointed to record the proceedings.

The Chairman again stated that the Commission would welcome any testimony that members of the public could give which would be pertinent to the scope of the Commission. He also said it was not intended to proceed further on that day, and that when the Commission adjourned, as it did shortly afterwards, it would stand adjourned until Tuesday, July 17, at 2.00 o'clock, p.m.

Subsequently the Commission sat on the 17th, 18th, 19th, 24th, 25th, and 26th July, and on the 1st, 2nd, 3rd, 14th, 15th, 16th, 17th, 21st, 22nd and 23rd August. Many witnesses were heard, including Mr. Louis V. Rorke, Surveyor-General of Ontario, the Honourable J. R. Cooke, the Honourable George S.



Henry, the Honourable William H. Price, the Right Honourable Arthur Meighen, and Mr. William H. Smith, a director and Secretary-Treasurer of the Abitibi Power & Paper Company.

On July 17 Mr. F. H. Gordon, K. C., of Regina, Saskatchewan, appeared and asked that counsel should be provided at the expense of the Province to represent the retired members of the Hydro Commission in their official capacity. Mr. Slaght for the Province declined to recommend the appointment requested, and the Commissioners had no power to authorize it to be made.

On the 24th July Mr. W. N. Tilley, K. C., appeared for the members of the late Administration, and Mr. R. P. Locke, K. C., appeared on behalf of the Honourable George S. Henry personally.

So far as appears material the testimony of the principal witnesses called will be referred to later.

Towards the end of June, 1926, as a result of negotiations between representatives of the Abitibi Power and Paper Company and members of the Government, Sir William Hearst was authorized by the Government to prepare a lease of the Abitibi Canyon to a company called the "Hudson's Bay Power Company."

As the site was the property of the Province, negotiations for its acquisition were necessarily wholly conducted with members of the Provincial Government. The Hydro Commission was not directly concerned.

Indications of what was going on are afforded in the very moderate bill which Messrs. Hearst & Hearst later presented for their services to the Crown. It is headed: "re Abitibi Canyon Lease" and is stated to include "all services from June, 1926, to December, 1926." Such services are set forth as follows:

"Receiving instructions to prepare and settle lease of Abitibi water  
"power. Consultations with Prime Minister, Consultations with Mr.  
"Rorke. Many consultations and conferences with Mr. F. G. Kilmer,  
"K. C., counsel for the lessee, as to special terms and provisions  
"embodied in lease. Preparing, revising, settling and engrossing form  
"of special lease."

The Prime Minister at the time was the Honourable George H. Ferguson.

An Order-in-Council relating to the lease was made on the 11th November, 1926. It was stated that having had under consideration the report of the Honourable George S. Henry for the Minister of Lands and Forests recommending that a lease be granted of the Canyon power to the Hudson's Bay Power Company Limited, such lease was approved.

Mr. Henry deposed (Ev. p. 189) that he had acted on a report made by the Department of Lands and Forests, of which he was head in the temporary absence from the city of the Minister, the Honourable Mr. Finlayson.

The lease is in evidence. It is not made to the Company on behalf of which Mr. Kilmer applied for it, but to a subsidiary of that Company formed just before the lease was executed. The Ontario Gazette of November 27, 1926, published the statutory notice that on November 5, five solicitors were incorporated by Letters Patent as the Hudson's Bay Power Company, Limited. All these gentlemen were members of the Kilmer firm.

The stated purpose and objects of the new company were to manufacture, produce, sell, etc., gas and electricity, and to carry on the business of a water, light, heat and power company; other purposes were to be as set forth in the charter. The capital was \$40,000, "without any nominal or par value," and the incorporators were to be the provisional directors.

The lessee covenanted to incur obligations which involved the primary expenditure of millions for development of power, and the installation of water wheels, plant and machinery for the production and transmission of power. This was, it is true, to be based on a bona fide demand for power *in excess of the quantity developed and utilized* by the said lessee, which might be in whole or in part supplied from the water privilege. On default, the Lieutenant-Governor in Council might order and direct that the lease should be forfeited and cancelled. Such cancellation, however, should not affect the lessee's rights to any fully developed power already made.

Apart from a small rental in the earlier years the company was to pay one dollar per annum for each electrical horse power *generated and used*. The minimum amount so payable in any one year, beginning the sixth year of the term of twenty years from the 6th November, 1926, was \$20,000 a year.

There were other substantial obligations covenanted to be performed by the lessee, such as, that it was bound on three months' notice to sell and deliver to any municipal or other corporation or to any person, etc., requiring the same power up to 40% of the amount of power developed. The prices to be paid per horsepower were to be such as might be agreed upon between the lessee and the purchaser, or, failing an agreement, such as should be fixed by the Minister or in the manner he might direct.

Another important section of the lease is numbered 24. It provides that within eighteen months from the date of the lease—that is, prior to May 11, 1928—plans prepared by a duly qualified engineer showing the manner in which the lessee proposed to develop the water privilege thereby demised, and also a plan and description showing what lands, if any, would be required in carrying out such development other than the area described in the lease, should be filed with the Department of Lands and Forests of the Province of Ontario. The Order-in-Council ratifying the lease states that the lessee had represented to the Crown that it was about to commence the development of the water privileges situate on the lands demised. No actual development was begun until more than four years later when, as appears by an Order-in-Council of July 9, 1930, it is stated that the Hudson's Bay Power Company had represented to the Crown that it was *about to commence* the development of the water privileges situate on the lands demised to the full capacity of approximately 275,000 H. P. at an estimated cost of \$20,000,000. The order provided for an extension of the term of the lease and certain modifications and changes in its terms, which will be referred to later. The purpose is declared to be that the company "shall be enabled to finance the said development."

When the negotiations for the lease were completed or were approaching completion, all its issued capital—\$20,020 of the \$40,000—was held by the Abitibi Company. Apart from the dollar subscribed from each of the five applicants for incorporation, only \$1,500 had formed the assets of the Hudson's Bay Power Company. It was to this company with virtually no assets that the



lease of the Abitibi Canyon was made by the provincial government as provided by the Order-in-Council of the 11th November, 1926.

It does not appear that any inquiry was made by the Government as to the capacity of the Hudson's Bay Power Company to construct the work specified and to perform the covenants which the lease imposed. Had such inquiry been made it would have been found, of course, that the lessee had no assets whatever enabling it to perform its covenants.

No guarantee of performance by its subsidiary of the obligations of the lease was exacted by the Government from the Abitibi Company.

By the terms of the lease of the Abitibi Canyon power site dated November 11th, 1926, the Hudson's Bay Power Company was obliged to develop power set out in the lease and certain preparatory surveys were made.

In the meantime the Hydro Engineers had made a study of the probable future requirements in connection with power development in the northerly part of the Province as set out in two letters dated August 29th, 1928, and March 1st, 1929, from the then Chairman of the Hydro Commission, Mr. C. A. Magrath to the Hon. G. H. Ferguson, the Prime Minister. In one of such letters, Mr. Magrath thought the Hydro Commission should be permitted to consult with the Departments of the Province controlling the timber and minerals, and expressed the view that the announcement of "a policy for Northern Ontario" that is, to the southern part of Northern Ontario "would be met with very considerable approval throughout the Province."

Prior to these letters various studies were being made by these engineers as to the most suitable locations for development of power and the plan referred to in Mr. Magrath's letters with various power sites marked shows in dotted lines the proposed transmission lines. This plan was originally prepared in connection with a report made by Mr. Gaby. It covered in a general way the territory from Mattawa westward through North Bay, Sturgeon Falls and Sudbury to Spanish River and Mississagi River, a distance of 225 miles.

Intimation of the Hudson's Bay Power Company's desire to develop the Abitibi Power site seems first to have reached the Hydro Commission in a letter dated 25th May, 1929, from Alexander Smith to Mr. Magrath in which he states that Hudson's Bay Power Company had practically completed its survey and preliminary engineering in reference to the development of its canyon power site on the Abitibi River, and, that as a result of its intensive study of this power site over a period of nearly three years, that Company is now in a position to make and hereby does make a formal proposal to sell to the Commission a minimum of 100,000 H. P. on the terms and conditions which may be shortly stated as follows:

The power to be developed would be approximately 184,000 H. P., the contract to be for thirty years, delivery at Hunta at \$15.00 per horse power to begin October 1, 1931.

About that time the Commission had certain enquiries from power customers in the Sudbury District for comparatively large blocks of power in addition to what was then being supplied from the Commission's Wanapitei plant which was already about loaded to capacity. These enquiries were from mining companies in and around Sudbury, the principal one being the International Nickel Company.



Mr. Jeffrey in a report, (Ex. 72), dated January 15th, 1930, states that the engineers' reports show that the Mississagi developments provided the most economical power for the Sudbury District because sites on the Upper Ottawa and Abitibi involved developments in large blocks while the Mississagi sites lent themselves to development in stages, as additional power might be required.

Mr. Gaby dealt with Mr. Smith's first proposals in a memorandum to the Commission dated 21st January, 1930, in reference to an application of the International Nickel Company for a supply of 16,000 H. P. and possibly that of Canadian Industries for 6,000 H. P. This memorandum states that on additional information from Mr. Smith the Abitibi Company proposes to develop 200,000 H. P. at Canyon Falls at a cost, plus storage, transmission line to Hunta and contingencies, of \$20,182,000 and to supply power to the Commission on the basis of the Company making the complete development of 200,000 H. P., the Commission to pay the entire cost of the development plus transmission based on 100,000 H. P. contract, a credit being made by the Company for the use of the second 100,000 H. P. for the operation of steam boilers at a rate of \$8.00 per H. P.

Dealing with this, the memorandum states:

"Our calculations show that this proposition would be higher than the rate from the Abitibi Development previously submitted, calculated on the basis of \$15.00 per H. P. for power purchased from Hunta. From these estimates it would appear that on the basis of the power demands, which it is expected will arise from time to time in this District, the most economical source of supply would be Mississagi River Developments, which Developments can be constructed as required to meet the growing power demands."

The memorandum therefore recommends an agreement with the International Nickel Company and Canadian Industries for the supply of power at the rates and under the conditions set out, and then states for further reasons that it is important that the Mississagi River be freed from claims other than those of the Crown.

Up to 21st January, 1930, Mr. Gaby and Mr. Jeffrey, therefore, had no doubt that Mississagi River Development should be adopted and Mr. Smith's proposal for the Abitibi Development rejected.

The scheme of development in stages laid down by the Hydro Engineers and mapped out in Mr. Magrath's letters, in so far at least as Sudbury District was concerned, was completely and suddenly abandoned in 1930 and a scheme was adopted through negotiations carried on between Alexander Smith, acting as President of both the Abitibi Power and Paper Company and the Hudson's Bay Power Company, and the Government which involved a large single development of 275,000 H. P. at the Abitibi Canyon Site of which the Hudson's Bay Power Company held the lease of 1926.

There is little evidence as to these negotiations between Smith and the Government beyond the fact that they took place in 1929 and the early part of 1930 and resulted in the change of view on the part of the Commission and its engineers referred to, and in the contract dated April 10th, 1930, (called

the Power Contract), by which the Hydro Commission agreed to purchase from the Hudson's Bay Power Company 100,000 H. P. from the Abitibi Canyon.

As a basis for the change resolved upon through the negotiations between Mr. Smith and the Government, Mr. Jeffrey was called upon to make his report of 9th April, 1930, at the instance of his Superior Officer, Mr. Gaby.

The report sets out that the Commission has applications for blocks of power to the following customers in Sudbury District namely, International Nickel Company, Canadian Industries, Treadwell Yukon Company, Falconbridge Nickel Company, Abitibi Power and Paper Company at Espanola and the Town of Sudbury. The report purported to show that power could be more cheaply supplied for Sudbury from Abitibi than from Mississagi, the rate being \$22.60 per H. P. from Abitibi and \$22.96 per H. P. from Mississagi. The rate, however, quoted for Abitibi was based on a full load of 100,000 H. P. from Abitibi for forty years. Mr. Gaby, the Commissioners and the Government were not misled by this comparison, because all knew that the utmost usable load from Abitibi that could be foreseen by the Hydro engineers for years to come was 55,000 H. P. The report was manifestly submitted to provide a basis for the contract dated next day, April 10th, 1930, by which the Hydro Commission agreed to purchase from the Hudson's Bay Power Company 100,000 H. P. at \$13.00 per H. P. as Mr. Smith had requested on May 25th, 1929.

In the minutes of the Commission of its meeting the following day, April 11th, it is stated that the matter of the purchase of 100,000 H. P. was fully discussed with Commissioner Cooke and Alexander Smith, and that "representatives of several mining corporations in the Sudbury District have approached the Commission from time to time wishing to know to what extent it would be able to take care of their prospective needs, and in view of the great mining possibilities of that District this matter has been receiving fairly close study for the past six months or more." The minutes go on to say that "A contract of this character is of very great importance to the Sudbury area. It makes available at the earliest possible moment a large amount of power, a most important factor in the opening up of the northern part of the Province.

It was therefore decided to enter into a contract with Hudson's Bay Power Company for the supply of 100,000 H. P."

All this was set out in the minutes like the Jeffrey Report of April 9th, 1930, to supply grounds for entering into the power contract dated April 10th, 1930, that Alexander Smith had already arranged for.

Mr. Jeffrey's report of April 9th, 1930, states that a supplemental agreement is to be entered into between the Hydro Electric Power Commission and the Abitibi Electric Power Development Company, a subsidiary of the Abitibi Power and Paper Company, whereby the former Company will purchase from the Commission 35,000 H. P. for a period of ten years from 1st October, 1931.

This agreement is mentioned in the minutes of the Commission of April 11th, 1930, but on December 1st this was changed to an undertaking to the Government by the Abitibi Electric Power and Development Company by which the Company covenanted that on or before the 12th day of October, 1931, if called upon by the Commission in writing so to do, it would enter into a



contract with the Commission for the purchase of 35,000 H. P. A notice in writing pursuant to this undertaking was given and a contract dated 1st October, 1931, for the purchase from Hydro of the 35,000 H. P. for 40 years was made but not executed until January 6th, 1932.

In connection with the contract of April 10th, 1930, for purchase by the Commission of 100,000 H. P. and resale of 35,000 H. P. of that 100,000 H. P. to the Abitibi Electric Power and Development Company, there was brought about an amendment to the lease which was discussed by the Commission at the meeting of May 7th, 1930, when it was decided to write to the Prime Minister stating, "that in view of the large development taking place in the extreme northern part of the province, and its great importance in aiding in the development of that section of the Province, the Commission would appreciate the Ontario Government relieving the Company of the annual rental (under the original lease of \$1.00 per horse power) on this 100,000 H. P. during the 10 years following the first taking of the power by the Commission."

In point of fact, no "large development was taking place in the extreme northern part of the province", and no large developments were in contemplation anywhere in the extreme north, but only in the Sudbury District far to the south. Even at the present time no industry of any kind has been developed in the extreme north of Ontario.

Referring to the decision of the Hydro Commission, Mr. Magrath immediately wrote to Mr. Ferguson, stating that "realizing the importance of power service for the development of Northern Ontario, the Commission had been negotiating for some considerable time with Mr. Alexander Smith representing the Hudson's Bay Power Company." Neither the letter nor the minutes of April 11th, 1930, refer to any requirement for power in the *extreme* north, but to the enquiries and recent demands for power in the Sudbury District referred to in the minutes and the letter. The Sudbury District is not anywhere in the extreme north but nearly 250 miles south of the Canyon.

At Sudbury the International Nickel had applied to the Commission for 15,000 H. P. with possibly 6,000 H. P. additional for an allied company. This application was considered by the Chairman to afford the first opportunity enabling the Commission to provide the north country with considerable quantities of power. The letter adds that: "Our difficulty was to find a sufficient load to justify the development of a large block of power in that part of the Province . . . . further, in view of the long transmission line that would have to be constructed, we were faced with the difficulty of working out a figure that would justify the Hudson's Bay Power Company in proceeding with such development and at the same time furnish power to the Commission at a satisfactory price."

Then he states, that in the discussion that took place, the Commission had been able to reach a satisfactory price and terms with the Hudson's Bay Company, provided the Government, "in the interests of the general expansion and importance of Northern Ontario, will refrain from charging rental on the 100,000 H. P. being contracted for, until that load is built up, or, say, for a period of ten years following the first taking of the power by the Commission."

"This matter has already been discussed with you, and you were good enough to say that you believe your Government would be willing to grant this concession, in order to enable the Commission to complete the Contract."



As Mr. Tilley argued, Mr. Magrath "sounded the Prime Minister first to see whether it (the reduction in rent) would be acceptable to him, and then, having found that he thought his Government would approve of it, it was put formally before the Commission and formally in a letter to the Prime Minister for him to take up."

With both the Hydro Commission and the Premier of Ontario concurring in the view that the rental should be reduced to the extent stated, the lease of 1926 was amended in the respects desired by Alexander Smith, by an agreement dated July 9th, 1930. This appears to have been sanctioned by Order-in-Council on a report made by Mr. Ferguson. After setting forth that the lessee is about to commence the development of the Canyon to its full capacity of 275,000 H. P. at a cost in excess of twenty millions "and having applied for an extension of the term of the said lease and certain modifications and changes in the terms of the said lease in order to enable it to finance the said development," it was expedient to grant the application and it was granted accordingly and the lease was amended so that to the extent of the 100,000 H. P. purchased no rent should be paid by the lessee for ten years.

A contract dated 4th June, 1930, was made between the Abitibi Power and Paper Company and the Commission by which the Company guaranteed that the Hudson's Bay Power Company will perform all its covenants with the Commission contained in the power contract dated April 10th, 1930.

The Power Contract was authorized by Order-in-Council dated 9th July, 1930. Up to that time the prospective demands for power mentioned in Mr. Jeffrey's report of April 9th, 1930, in the minutes of April 11th, 1930, and in Mr. Magrath's letter to Mr. Ferguson of May 7th, 1930, had resulted in only two contracts, one from the Abitibi Power and Paper Company itself for 10,000 H.P., to be used at its Espanola mill, and one from International Nickel Company for 16,000 H. P. at or near Sudbury. The only further prospect was for the sale of 6,000 H. P. to Canadian Industries, but this never materialized. There was unsold at this date 74,000 H. P., 48,000 H. P. of which was due for delivery in 1932-1933, the amount increasing yearly until the full 100,000 H. P. would become due for delivery in 1937. This would entail a yearly loss to the Commission, including \$50,000.00 yearly for transmission and other costs, of \$760,000.00 in 1932-33 and running up to \$962,000.00 in 1937, unless further contracts for sale of power should be secured and unless a contract for the sale of 35,000 H. P. to Abitibi Electric Power and Development Company should be entered into.

This, as it worked out up to July 9th, 1930, was the solution of the difficulties concerning load and satisfactory price that confronted the Commission referred to in Mr. Magrath's letter of 7th May, 1930.

The Commission, as mentioned, had agreed to sell to Abitibi Power and Paper Company 10,000 H. P. and to International Nickel Company 16,000 H. P. and to provide for this latter amount and the prospective sale of 6,000 H. P. and possible further sales, a contract was made July 4th, 1930, with Abitibi Electric Power and Development Company, pending the development at the Canyon, for a temporary supply of 25,000 H. P. Of this the sale of the 16,000 H. P. only materialized, and the Commission was left with the balance of 9,000 H. P. on hand which entailed a loss of \$117,000.00.

These complicated preliminary arrangements having been made, the Hudson's Bay Power Company proceeded to raise the required funds for its proposed development by a bond floatation of \$20,000,000 secured by a Trust Mortgage on the lease, the proposed development, the Hydro Commission contract for 100,000 H. P. and the contract of the Abitibi Power and Paper Company to buy from the Ontario Power Service Corporation all the power over the amount to be purchased under the Hydro contract.

The first attempt at floating the \$20,000,000 bond issue failed. Before making a second attempt, it was deemed advisable to change the name of the Hudson's Bay Power Company by Letters Patent and substitute the name "Ontario Power Service Corporation." This was done on July 30, 1930. Bonds for \$20,000,000 were issued in the new name of the old company and bought by Wood Gundy and Company, realizing \$17,917,100. The development then commenced and was carried on until the proceeds of the bond sale were becoming exhausted. In February or March, 1932, Mr. Smith intimated to Mr. Cooke, Chairman of the Hydro Commission, and to Mr. Henry, who had become Premier of Ontario, that these Companies were unable to secure the money necessary to complete the development or meet the next payment of interest falling due on the bonds, and applied for help from the Government.

Mr. Henry resolved to await the close of the pending Session of the Legislature before dealing with the situation which had developed. A new chapter in the history of the Abitibi Canyon development then commences, but some comment must first be made on that which has just closed.

The circumstances recited above show that it was after full investigation and consideration that the Hydro Commission and its engineers came to the conclusion, for what would seem to have been convincing reasons, that Mississagi development would afford the most economical source of power for the Sudbury District, and therefore rejected a proposal for development at the Abitibi Canyon because that development could only be made in one large block of 275,000 H. P. at a cost of more than \$20,000,000.00 with no prospective market on the most optimistic view of the matter, for the sale of more than 50,000 to 55,000 H. P. and would require the construction of a transmission line to Hunta by the Ontario Power Service Corporation and thence to Sudbury by the Hydro Commission, a distance of about 180 miles, for the most part through uninhabited country, at an estimated cost to the Commission of \$3,000,000 or \$4,000,000.

With all this in plain view, Mr. Smith's negotiations with the Government brought about the abandonment of the scheme of development that the Commission and its engineers had concluded to be the most economical and the adoption of the large and expensive development at Abitibi Canyon.

As previously stated there is little direct evidence as to the negotiations between Mr. Smith and the Government that induced the Hydro Commission to enter into the contracts that enabled the Ontario Power Service Corporation to float its bond issue and proceed with the Abitibi Canyon development.

A report made by Mr. Clarkson in March, 1932, sets forth that, while the Hydro Commission was in 1930 giving consideration to the requests for power at Sudbury and considering the plan for securing it from Mississagi, the Abitibi Power and Paper Company intimated that it desired to develop the



Abitibi power and requested that the Commission consider taking a supply for Sudbury from this development, and, "as is reported", the Government intimated to the Commission that the Government was anxious to have a supply of cheap power afforded for the development of Northern Ontario, in view of which, and in order to facilitate provision of the same, the Government was favourable to the making of a contract between the Commission and Abitibi Power and Paper Company.

It was estimated that a demand would exist for upwards of 42,000 H. P. for Sudbury District and would increase in two years to 50,000 H. P. and that accordingly the Commission was desirous of limiting the amount of power to be contracted for to 65,000 H. P. "A contract on such a footing, was however—as is reported—unsuitable to Abitibi Power and Paper Company Limited, in respect to the financing of the development, and accordingly it was ultimately agreed that if the Commission would contract to buy 100,000 H. P. from Hudson's Bay Power Company Limited (now Ontario Power Service Corporation Limited) which was to construct the development, Abitibi Electric Development Company Limited (a subsidiary of Abitibi Power and Paper Company Limited) would agree to take back 35,000 H. P. of such 100,000 H. P. if the Commission should so require."

Even without the narrative in the report, the object of these two contracts, by which one subsidiary of the parent company agreed to sell 100,000 H. P. to the Commission and the other subsidiary agreed to buy back from the Commission 35,000 H. P. out of the same 100,000 H. P., can be read from the contracts themselves, though Mr. Henry and Mr. Cooke state that no such object was present to their minds.

The prospectus sent out by Wood Gundy & Company in connection with the bond issue states that the Ontario Power Service Corporation had entered into 40-year contracts, under which all of its output of electrical energy will be sold to the Hydro-Electric Power Commission and to the Abitibi Power and Paper Company, and that the latter will covenant with the Trustee that the Corporation will fully complete the installation of the five units. The Wood Gundy agreement, in the form of a letter to Alexander Smith dated July 26th, 1930, also sets out that "Abitibi Power and Paper Company Limited, by agreement with the Trustee will warrant unto the Trustee and the holders from time to time of the bonds, that the Power Company will fully complete and install said power development."

No such agreement or warranty was ever made, and no mention of such an agreement appears in the Trust Deed, so that nowhere is there any guarantee to the Trustee for completion by the Abitibi Power and Paper Company. The nearest approach to a guarantee is the agreement made by the Abitibi Power and Paper Company with the Commission dated June 4, 1930, providing that the Hudson's Bay Power Company would perform the covenants contained in the contract dated the 10th April, 1930. This was very different from a guarantee to the Trustee for the completion of the development by the Abitibi Power and Paper Company.

The purchasers of these bonds ought to have realized that they were lending \$20,000,000 on a mortgage of a proposed development that, with allowance off the \$20,000,000 for discount and expenses, would require at least an additional \$5,000,000 to complete, and would earn the \$1,300,000, less the



cost of administration and operation, only when completed to the extent necessary to deliver the 100,000 H. P.

Up to that time, the bondholders had no security beyond the proceeds of their bonds, as used progressively in the development, and the contract with Hydro Commission, necessarily conditional on the production and supply of 100,000 H. P. While the Commission had a guarantee for completion of the development from Abitibi Power and Paper, the Trustee had no such guarantee and was entirely dependent on the will of the Commission for enforcement of a guarantee to which the Trustee was not a party. Assuming, however, that the Trustee would be protected through the Commission by enforcement, if necessary, of the guarantee, this protection was from the first illusory because dependent on the continued solvency of the Abitibi Company, as the Ontario Power Service Corporation had no assets of its own beyond the lease and the proceeds of the bonds, of which \$2,000,000 was to be held by the Trustee pending completion of the works.

The Abitibi Power and Paper Company and the Ontario Power Service Corporation were both in financial difficulties in the early part of 1932, and went into bankruptcy soon afterwards. The bondholders were then left with no security but what could be realized from a foreclosure of the Trust mortgage and a sale under it of the uncompleted development. It is, of course, said that these bondholders had had every reason in July, 1930, to regard the Abitibi Power and Paper Company as a very powerful organization, financially capable and likely to continue capable of providing the \$5,000,000 additional required.

It was first proposed that this Company should give a second mortgage, which would have been subsequent to the existing mortgage for \$54,000,000, for the amounts required for completion but it was objected by the Solicitors for the Company that this would appear in the Company's financial statement and would prejudicially affect its credit. The same objection applied to a guarantee of the bonds to the Trustee or a guarantee for the completion of development by the Ontario Power Service Corporation. There was, therefore, substituted the guarantee of June 4th by the Abitibi Company to the Commission.

The representation in the prospectus that a covenant for completion of the work would be given by Abitibi Power and Paper Company to the Trustee was therefore not fulfilled. This was known to Mr. Smith and to Wood Gundy & Company before the bonds were placed on the market. There is no evidence that anything to the contrary was made known to the public.

The Clarkson report sets out that, should the Canyon development be completed by October 1st, 1932, as contemplated, the Hydro Commission would the following year be obliged to take and pay for 88,000 H. P. out of which it had contracts for sale of only 16,000 H. P. to International Nickel, 10,000 H. P. to Abitibi Power and Paper Company for its Espanola Mill and 35,000 H. P. to Abitibi Electric Power Development Company. There would, therefore, be left unsold on the hands of the Hydro Commission 27,000 H. P. at a loss of about \$400,000, including approximately \$50,000 for unabsorbed transmission and other costs. This would increase yearly by the price to be paid for each additional 3,000 H. P. until it would reach \$560,000 in 1937. Against this loss there was the chance of increasing the sale of power out of the 100,000 H. P.

However, the prospective applications mentioned in Mr. Jeffrey's report of April 9th, 1930, had resulted, as previously stated, in only the two sales of 16,000 H. P. to International Nickel and 10,000 H. P. to Abitibi Power and Paper Company, and the contract with the Abitibi Electric Development Company for the resale of the 35,000 H. P., which was not signed until the 6th of January, 1932, when it and the parent company, the Abitibi Power and Paper Company, were on the verge of bankruptcy.

No other sales resulted from the contract dated April 10th, 1930, up to the Order-in-Council of July 9th, 1930, and none had been secured up to the presentation of the Clarkson report on March 19th, 1932.

Mr. Clarkson made several suggestions which he thought would be practicable and ended his report with the obvious conclusion that completion of the Canyon Development and the ability of the Abitibi Power and Paper Company to avoid financial difficulties were "matters of the most serious importance to the Province of Ontario."

Mr. Henry succeeded Honourable G. H. Ferguson as Premier of Ontario, in December, 1930. He had had, as his evidence shows, little or nothing to do with the negotiations culminating in the agreements previously made.

He recalled that an amendment to the lease was made in 1930 by Order-in-Council of the 9th day of July, and that the new agreement eliminated a rental of \$1 per horse-power for all electrical energy which the Hydro Commission purchased from the lessee. He was also aware that Hydro had bound itself for a period of 40 years to purchase 100,000 H. P. at \$13.00 per H. P. He could not suggest any reason for relieving the lessees of an annual rental of \$100,000 other than that the current was going into the hands of the public body.

Mr. Slaght then pressed Mr. Henry as to what moved him to relieve at the expense of the Department of Lands and Forests this privately owned company to the extent of \$100,000 a year, and was told, "I haven't any recollection of that detail." (Ev. 193.) When asked by Mr. Slaght to tell anything that led to a change in his mind in 1930 when as a member of the Government he was party to an amendment of the lease which relieved the Hudson's Bay Power Company of a burden of \$100,000 a year, he again said, (Ev. 195) "I have no recollection with regard to the details of the amended lease."

Mr. Slaght continuing said:

"I am not asking about the details of the amended lease. That is a document that is in. But if you can help us with any business reason or any justification for passing out what might be regarded as a bit of a plum perhaps by the lessees, viz: relief of rental to the extent of \$100,000 a year by a private venture—if you can tell us anything that moved you to be a party to that, I want to know it.

A. I haven't any."

He remembered, however, that in 1930 under the contract dated April 10th, by which the Hydro Commission agreed to buy 100,000 H. P. from the Hudson's Bay Company at \$13.00 per H. P., that Hydro made at that time a contract with the parent company for 10,000 H. P. to be furnished to their

Espanola plant by Hydro, and a contract with another subsidiary of the Abitibi Company that Hydro would sell it 35,000 H. P. He further remembered that the Cabinet of which he was a member approved of an Order-in-Council indemnifying Hydro against loss by reason of Hydro's entering into the 100,000 H. P. contract, "when Hydro might not have a sufficient market to absorb the whole."

Having brought these matters to the attention of Mr. Henry, Mr. Slaght asked,—

"Now, will you give the Commission any reason that moved you or  
"that you can suggest moved your associates to put the neck of Hydro  
"and put the neck of the Government under a firm obligation for 40  
"years of \$1,300,000 when you had a right (under the original lease)  
"to take 110,000 H. P. at your own terms? What was the dominant  
"factor that brought about that kind of a contract?

"A. I do not remember the details, or what would lead up to that.

"Q. Can you give us no thought at all?

"A. Well, it is difficult for me now, having lived with this problem  
"with regard to power in the north country for the last two years,  
"to know just how much I have absorbed that I did not have pre-  
"viously."

"Q. You were aware as Minister that this privately-owned power  
"company which by this time, the middle of 1930, had become by  
"Order-in-Council known as Ontario Power Service Corporation  
"intended to make a public bond floatation of \$20,000,000, were  
"you not?

"A. I do not know that I remember that.

"Q. Well, you bought some two weeks later. Do you mean to say  
"as a cabinet minister you were not aware, not informed, that part of  
"the plan of finance of this private corporation, Ontario Power  
"Service, involved a proposed issue of \$20,000,000 of bonds to the  
"public of Ontario?

"A. I would not know anything of that until it was published, how  
"they were going to finance themselves.

"Q. Are you serious in that, Mr. Henry?

"A. I think so; I have not any recollection of it.

"Q. Your Cabinet had to decide whether or not you would relieve  
"this private company in the first place of the \$100,000 annually of  
"rental?

"A. Yes.

"Q. And in those negotiations did you suggest that your Govern-  
"ment did not ask them or acquaint themselves at all with the pro-  
"posals of the parent company as to how it was going to float or  
"carry out the construction that they had bound themselves to  
"carry out?

"A. I was not in negotiations with them at any time."



Mr. Slaght: (P. 206)

"Q. Now, was it in any way to help the private promoters of this "Ontario Power Service Corporation, or perhaps, putting it as what "you may agree, is more accurately, the parent company, the Abitibi "who were promoting this venture, was it to help them that you "and your confreres gave them that binding contract of April 10, "Exhibit 4?

"A. No, not that I know of.

"Q. No thought of helping the private interests at all?

"A. Hydro was desirous of getting this power.

"Q. Yes, Mr. Henry, but Hydro had the right to the power, you have "already agreed with me, by a contract back in 1926, where they "could get 110,000 H. P. at their own price. Does that make any "difference or assist your recollection in the last answer you made?

"A. No, it does not.

"Q. Because I am puzzled, and I am going to leave it very shortly, "but I want to afford you the fullest opportunity of explaining to this "Commission any other business reason in the world when Hydro "was entitled to demand and have for their own use and to pass "along 110,000 H. P. and fix the price if they wanted to themselves, "below 13, if they wanted to assuming they would be fair—any "business reason at all in 1930 to bind the Hydro Commission for "\$1,300,000 for 40 years unless it was to help private promoters make "a success of their bond issue? I invite your answer to that question.

"A. I could not say."

The situation confronting Mr. Henry and the members of the Government in 1932 was of their own making when in 1930 they relieved the lessee of the Canyon from the payment of \$100,000 rental annually and induced the Hydro Commission to contract to purchase from Ontario Power Service Corporation during forty years 100,000 H. P. and to pay therefor \$13.00 per horse-power.

It became clear to Mr. Henry in May, 1932, that the recommendations of the Clarkson report could not be carried out because of the financial situation of the Abitibi Power and Paper Company and its subsidiaries. The parent Company was about to default on its bond interest on 1st June and Ontario Power Service Company on 1st July, 1932. The Abitibi Electric Power and Development Company has not yet been actually declared bankrupt but as shown in evidence all its property and assets are covered and involved in the bankruptcy of the parent Company so that no assets were available to meet the liability of the subsidiary to pay for the 35,000 H. P. it had agreed to buy from the Hydro Commission. Mr. Henry says the situation had thus become changed in 1932 as there was then a market for only a small part of the 100,000 H. P. As has already been pointed out the power contracted to be sold by the Commission in July, 1930, when the Hydro contract was signed was just the same as in July, 1932. In 1930 the Hydro Commission had the two contracts for sale of 16,000 H. P. and 10,000 H. P. and no more and in 1932 had the same two contracts with no additional sale except that for the 35,000 H. P. which the purchaser had no means of paying for and for which no market or use was obtained in 1930 or 1932.

The Clarkson report having been rejected in view of the financial situation of the Abitibi Companies, Mr. Henry proceeded to negotiate with the representative Committee of the bondholders. He gives as a reason for entering into the arrangement set out in his letter of 28th July, 1932, that he discovered that financiers were about to buy the uncompleted development in which event the Hydro Commission contract "would live" that is "that something might be done to enable them to complete the work that they could deliver current to the Hydro under the contract."

The Trustee for the bondholders, on default of the Ontario Power Service Corporation to complete the development, had the right to realize on their trust mortgage security by sale or foreclosure.

There was manifestly no ground for Mr. Henry's fear that financial interests might outbid him. They would have to bid the market value as determined by the Trustee's sale and then add to it the cost of completion to the extent required for delivery of the 100,000 H. P., apparently about \$5,000,000.00. In addition to this, they would have to provide the penalty of 100% from 1st October, 1932, for failure to deliver the 100,000 H. P. until installation of the two units. With the delay that would necessarily result while the Trustee sale was being carried out, the penalty would have amounted to probably \$2,000,000.00.

Mr. Henry says that towards the end of May, the Government had resolved to acquire the property for the Province and to purchase the Ontario Power Service bonds. The simple way to acquire the mortgaged property was to purchase at a sale by the Trustee. He could afford to wait as the Government and the Commission were in the meantime incurring no loss. By such purchase, the Province would acquire the property including the Hydro contract at the market value. The contract would be extinguished by the purchase.

There was, therefore, nothing to be feared from competitive bids from financial interests. Mr. Henry does not pretend to claim that the price of about 71 paid for the bonds, as he figures it, represented what was likely to be realized from a sale by the Trustee of the mortgage security. It represented what he says was a price that he thought fair to the bondholders and to the Government.

Neither the Government nor the Commission was under any obligation to the bondholders legal or otherwise. There was no breach of contract by the Government or the Commission. The bondholders did not get the guarantee promised in the prospectus but, as set out in the Trust Deed, got the security that they bargained for. If they saw fit to buy these bonds at a large discount, that was a speculation on their part obviously involving risk of loss. Mr. Henry does not pretend that he was agreeing to pay for the property only what it would have brought on the market, but what he thought would be fair to the bondholders and the Government. The price paid was, therefore, based on consideration for the bondholders and not on value.

No accurate value of the mortgaged property and contract can be fixed, but the market value was reflected with a fair degree of accuracy by the prevailing market value of the bonds from June 1st, 1932, when the first default in interest payment arose, up to the 25th June when Mr. Henry's newspaper announcement of that date appeared. The market price varied from about 30 to 40 during that period.



Mr. Henry, therefore, out of consideration for the bondholders, made his offer of 71 for these bonds when their value, as estimated by market quotations before any intimation had been given as to Government intervention, was not higher than 40.

The scheme for power development at Abitibi Canyon must, of course, be looked at as it appeared or ought to have appeared in the early part of 1930 when that scheme was launched. At that time, industry of all kinds was prosperous and particularly the pulp and paper and mining industries. It was, however, at that time that the scheme of the Canyon development received its strongest condemnation. Mr. Magrath's letter of 1st March, 1929, (Ex. 81), set out to the then Premier in great detail the present and prospective needs for power in Northern Ontario and the best and most economical method of providing and transmitting it. Reports and recommendations of the Hydro engineers all confirmed what Mr. Magrath had written. There was no prospective need for power development at the Canyon as it was situated in practically uninhabited country and 250 miles away from the prospective needs which could have been supplied from comparatively small developments near at hand in stages as further power might be required. In opposition to Mr. Magrath's letter and the reports and recommendations of the Hydro engineers referred to, and as a result of Mr. Smith's negotiations with the Government between January 21st and April 10th, 1930, the Abitibi Canyon scheme was adopted. An appearance of justification for it was set out in Mr. Magrath's letter of 7th May, 1930, where he refers to the satisfactory load and satisfactory price for electrical energy that had been worked out. The satisfactory load was fictitious as only a strained estimate of 55,000 H. P., at the most, could be foreseen. The satisfactory price was also fictitious and was arrived at on the basis of a full load of 100,000 H. P. for forty years when all knew that there was no load in prospect for more than 55,000 H. P. all told.

The 35,000 H. P. for purchase of which the undertaking was given to the Government was not intended or expected to be a load at all but a mere book entry as between the one subsidiary and the other and entered into, as the Clarkson reports recite and as the facts indicate, solely for the purpose of the bond floatation. It was intended to work out in effect as a contract by the Commission for the net purchase of only 65,000 H. P. Mr. Meighen's suggested parallel between the scanty earnings of the Chippawa development in the first two years and the prospective earnings of the Canyon development when started is also fictitious. The former was at a period when much was still to be learned about power transmission and distribution and was situated in the most wealthy and populous part of Ontario. The latter was remote from power requirements with opportunity for supply in ample quantity near at hand.

The negotiations proceeded and on the 25th of June, 1932, Mr. Henry announced in the press that negotiations had been going on which it was hoped would result in a scheme by which the property would be acquired by the Government.

Finally a prepared statement was published by Mr. Henry in the press of 25th July, 1932, giving reasons for the decision arrived at to offer to the bondholders \$18,000,000 of Hydro Commission Government guaranteed twenty year debentures in exchange for the \$20,000,000 of Power Corporation



bonds. This was followed by a letter from Mr. Henry to the Chairman of the Hydro Commission dated 28th July, 1932, setting out the terms of the proposed purchase. The letter is as follows:—

“ONTARIO EXECUTIVE COUNCIL OFFICE

“July 28th, 1932.

“Honourable J. R. Cooke,

“Chairman,

“The Hydro-Electric Power Commission of Ontario,

“190 University Avenue,

“Toronto, Ontario.

“Dear Sir:

“The Government of the Province of Ontario has decided to  
“request the Hydro-Electric Power Commission of Ontario to make  
“an offer to the holders of the 5½ per cent First (Closed) Mortgage  
“Sinking Fund Gold Bonds of Ontario Power Service Corporation  
“Limited to acquire such bonds by exchanging for the same Twenty  
“Year Debentures of the Commission to be guaranteed by the  
“Province of Ontario on the basis of \$90 of such Debentures for each  
“\$100. of Bonds of Ontario Power Service Corporation, Limited, such  
“Debentures to be dated 1st October, 1932, and to bear interest for  
“five years at 3½ per cent per annum, for five years at 4 per cent per  
“annum, and for ten years at 5 per cent per annum, and to be redeem-  
“able at any time at par at the option of the Commission. I, therefore,  
“request that the Commission should take such steps by public  
“advertisement and otherwise as it may think necessary or desirable  
“to make the offer to the bondholders. The Government of Ontario  
“will indemnify the Commission against all loss, costs and expenses  
“in connection with the entire transaction, including the operation  
“and administration of the property and any extension thereof, and  
“will enter into a formal agreement with the Commission to this  
“effect, inasmuch as the expectation is that if the Commission shall  
“acquire sufficient Bonds it will proceed by legal steps to acquire all  
“the property of the Ontario Power Service Corporation Limited  
“covered by the Trust Deed securing the Bonds. I shall at all times  
“be ready to cooperate with the Commission in disposing of any  
“questions that may arise and will recommend any legislation that  
“may be necessary to give effect to our understanding.

“Yours very truly,

“(sgd) Geo. S. Henry.”

In accordance with the request contained in this letter the Commission proceeded to carry out the purchase.

At a meeting on 2nd August, 1932, the Commission caused to be prepared an offer for the purchase of the bonds referred to on the terms set out in Mr. Henry's letter and passed a resolution that such offer be made and advertised and that the Secretary be instructed to apply to the Lieutenant-Governor-in-Council for an order authorizing the Commission to acquire said bonds on the terms mentioned.

On the 4th of August, 1932, the Commission passed a resolution which recommended that the Commission be authorized and empowered under the provisions of subsection (g g) of section 20 of the Power Commission Act to acquire from time to time by purchase in the open market or otherwise, these bonds, by exchanging for the same twenty year debentures of the Commission guaranteed by the Province of Ontario, of the face value of \$20,000,000 on the basis of \$90 of such debentures for each \$100 of said bonds.

On this recommendation the order-in-council dated 16th August, 1932, was passed authorizing the purchase.

By a resolution of October the 7th, 1932, the Commission elected to purchase all the bonds deposited up to that time, although only 88% had been deposited. The evidence is that on verbal request by the Government this election was made.

The purchase was accordingly completed and the exchange made by the Hydro Commission.

The total cost of the property and development to the Commission up to June 30th, 1934, was \$17,917,100.00 paid for the bonds and \$1,804,770.27 since paid out, to which is to be added \$2,199,308.45 the cost of the Hunta-Sudbury line and \$2,290.63 for the cost of the meter station at Copper Cliff, making a total of \$21,923,469.35. This leaves outstanding claims, yet to be settled. Several millions of these seem to be undisputed by the Commission, part of which is to be paid off at 70 cents on the dollar under some arrangement arrived at by the Commission.

For the eight months ending June 30th, 1934, the shortage of revenue from the development to meet charges to revenue was \$389,351.81, being at the rate of \$584,037.72 per year. Interest on the Hydro bonds during that period was at the initial low rate of 3½%. The rate increases to 4% in 1937 and to 5% in 1942. The capital cost will, of course, be also increased when the unsettled part of the claims will have been paid.

It cannot be determined on the evidence what amount of power is being now delivered from the development. It should have been a simple matter for Hydro officials to give the exact amount and the rates at which it was being supplied. They say that part of what is being delivered is at a rate of \$4.00 per H. P. used for heating steam boilers. Such installed power as cannot be sold at a profitable rate is, of course, properly sold at \$4.00 per H. P. rather than wasted.

This shows at a glance the improvidence of the original contract of 10th April, 1930, for purchase by the Commission, at the instance of the Government, of the 100,000 H. P. and not lessened but enhanced in degree by Mr. Henry's bargain, carried out by the Commission, for the purchase of the bonds.

The purchase of the Ontario Power Service bonds by the Hydro Commission was negotiated by Mr. Henry personally on behalf of the Government. He was himself the holder of \$25,000.00 of these bonds and the Insurance Company of which he was a director held \$200,000.00. He was precluded by this interest from taking part with propriety in the negotiations and resulting purchase.

It is argued that his personal interest and the interest of his Company was small in comparison with the public interest involved. The sum of \$25,000.00 constitutes a substantial interest for an individual and \$200,000.00 constitutes a substantial interest for an Insurance Company. Having then, this interest in the transaction about to be considered, Mr. Henry should have frankly disclosed his interest to his colleagues of the Cabinet and should have asked them to relieve him of the responsibility of dealing with the matter. Mr. Price, the Attorney-General, was the acting Premier in Mr. Henry's absence, and, with the other members of the Cabinet, could have been trusted with the negotiations and the decision. Mr. Henry says that he refrained from disclosing his interest because he wished to leave his colleagues untrammelled in their judgment. He, however, was Premier with the deciding voice in the negotiations and allowed his colleagues to suppose that he himself was exercising his untrammelled judgment. In fact, his judgment was liable to be biased in any case by his interest and apt to be regarded all the more as such in view of the non-disclosure of that interest.

The position taken is untenable.

At an early stage of these proceedings it was held that a member of the Hydro Commission was not precluded from holding or buying bonds of Companies that had contracts with that Commission, such as the Beauharnois or Gatineau Power Companies, so long as no questions should arise between the Commission and such Companies in connection with these contracts.

Mr. Meighen was appointed a Hydro Commissioner on the 9th day of June, 1931. There was, therefore, no impropriety on his part in holding or buying bonds of the Ontario Power Service Corporation on behalf of himself and of the Companies he represented, so long as no questions seemed likely to arise in connection with the contract dated 10th April, 1930, between that Corporation and the Commission.

Mr. Henry testifies that Mr. Lucas, solicitor for Hydro Commission, told him about the latter part of March, 1932, that there had been discussions between representatives of the Ontario Power Service Corporation and the Hydro and that Legislation would be needed if the Government was to be of any assistance to the completion of the work which was then in doubt. Mr. Henry, at that time, referred to some correspondence or memoranda from the Abitibi that he had sent to the Hydro-Electric Power Commission.

Mr. Cooke, the Chairman of the Hydro-Electric Power Commission, however, said that these discussions were between himself and Alexander Smith, who came to him during the Session in February or March, 1932, about the financial difficulties of his companies in reference to completion of the Canyon project.

Mr. Henry states that at the same time or a little later, Alexander Smith told him that the Ontario Power Service Corporation and Abitibi Power and Paper Company had not sufficient money to complete the development.

Mr. Cooke says that he saw Mr. Smith twice about the matter and made it perfectly clear to him that it was no use depending on any financial assistance from the Hydro-Electric Power Commission because "we would not have the authority to do it." He, however, discussed the matter with the Premier.



Mr. Lucas, Solicitor for the Commission, must have been consulted about these discussions because it was he who reported to Mr. Henry, that legislation would be needed if the Government was to be of any assistance to the completion of the work.

Mr. Cooke, at that time, was engaged in these discussions as Chairman of the Commission and Mr. Lucas as Solicitor for the Commission. Mr. Henry tells us that he deliberately postponed consideration of the matter until the close of the Session, and it was later that he called Mr. Cooke and Mr. Lucas with others into the negotiations.

Mr. Henry goes on to say that there followed negotiations with a committee of the bondholders in which Mr. Strachan Johnston and Mr. Clarkson represented the Government and that he has "a very clear recollection of various stages dealing with offers that we were seeking to have accepted by a representative Committee of the bondholders. The matter was carried on over a considerable period and most of it was in personal conversations with myself and the two representatives that I have mentioned who were working for us as an intermediary between the Government and this representative Committee of bondholders."

Mr. Meighen was present at all the meetings of the Commission from February to the end of August, except three, and it might be supposed that Mr. Cooke's discussions with Mr. Smith and Mr. Henry in reference to the financial difficulties of these Companies would be brought to the notice of his fellow Commissioners, particularly as it was through Mr. Lucas, the Solicitor for the Commission, that intimation came to Mr. Henry that legislation would be needed. Mr. Cooke, however, cannot recall discussing the matter with Mr. Meighen and Mr. Maguire "at all along that line as to what assistance the Government would give."

Mr. Meighen's evidence is that he never knew of the discussions in February or March between Mr. Cooke, the Chairman of the Commission, and Mr. Smith, nor of Mr. Cooke's resulting discussion of the matter with Mr. Henry, nor that it had been intimated by Mr. Lucas as Solicitor for the Commission that legislation would be necessary, nor that there were negotiations by Mr. Johnston and Mr. Clarkson at Mr. Henry's instance, with a representative Committee of the bondholders, and never knew until 29th of May, that there was likely to be default in payment of the interest on the bonds, falling due June 1st and July 1st, 1932. He says he immediately directed that purchases of Ontario Power Service bonds should cease, though he did not feel that there was any obligation for restrictions.

The Premier had, however, learned from Alexander Smith, the President of Ontario Power Service Corporation and of the Abitibi Power and Paper Co., that both companies were about to default in payment of interest on their bonds, and from the close of the Session he carried on negotiations in reference to the completion of the Ontario Power Service Corporation development and in reference to the contract with the Hydro Commission, which constituted the chief security relied on by the bondholders for payment of their interest. He called to his assistance Hon. J. R. Cooke, who was a member of his cabinet as well as Chairman of the Hydro Commission, Mr. Lucas, Mr. Gaby, Mr.

Guilfoyle of the Clarkson firm and Mr. Johnston, but nothing, it is said, was disclosed of these negotiations to the public, until Mr. Henry's newspaper announcement of June 25th, 1932.

Mr. Meighen's account of his interview with Mr. Price and the two other members of the Government extends over many pages of the evidence. He told these gentlemen of his interests. He deposed that he deemed it his duty to tell them.

Mr. Slaght asked:

"By that you mean your personal holding?

"A. I gave them that and I gave them the companies' holdings."

Mr. Meighen was at the time a director or manager of several financial companies, one a holding company which appears to have had as subordinates at least two trust investment companies. He also had a personal company called Erindale Finance Corporation. In this he owned all the shares.

Some securities, including a number of the bonds of the Ontario Power Service Corporation, were on deposit as collateral with a firm of New York brokers called Laidlaw & Co.

Mr. Meighen deposed that he stated to the members of the Government:

"What I have come for chiefly is, this, to urge you not to unduly  
"delay your decision, because if you do—these bonds now selling  
"down in the 30's or 20's— I forget where they were selling—'will  
"be sacrificed by the poorer bondholders.' "I told them we were  
"not too powerful ourselves."

He informed them that he was anxious for a decision one way or the other. "I said:

"the reason is this: if you delay the result is going to be the loss of  
"bonds by those less able to hold,' and I made it very plain to them  
"that we were in no too strong a position ourselves."

There is a rule among brokers that if securities get below a certain price they are struck off the collateral list. He, therefore, knew that the bonds which he had put up with Laidlaw & Co. were approaching, if they had not reached, the fatal limit, in which event, his companies would be called upon to replace them by collateral of higher value and his companies, whatever their number, were not in too strong a position to meet that emergency.

His individual holding in the name of the Erindale Company was a mere \$3,000, while the holding of his companies on deposit in New York as collateral was in excess of \$170,000 at par.

Whatever the amount of his interests, the decision of the Government to purchase the bonds at 90 inured greatly to the benefit of himself and his companies, and that decision was reached and announced to the public on the 25th of July, when, in an official statement, Mr. Henry proclaimed that the Government had "finally decided as the most convenient way of getting  
"title to the property, to offer to the bondholders \$18,000,000 of Hydro Commission's debentures in exchange for the \$20,000,000 of outstanding bonds  
"of the company, subject to the condition that 90% of the issued bonds were  
"deposited for exchange" with the Trustee within a certain time which was



later extended. About 88% of the bonds was ultimately deposited with the Trustee and exchanged for Hydro Commission bonds.

Mr. Meighen says he knew nothing of the negotiations between the bondholders and the Government. Mr. Henry's published statement of June 25th, 1932, of course came to his knowledge when published. He expected that there would be Government intervention because he regarded it as the duty of the Government to intervene.

Mr. Gundy asked Mr. Meighen to go with him and Mr. Long to interview Mr. Price, the acting Prime Minister in the absence of Mr. Henry, and on the 22nd June, 1932, obtained an interview with Mr. Price. Mr. Finlayson and Mr. McCrae were also present. Mr. Gundy and Mr. Long accompanied Mr. Meighen, but remained without during Mr. Meighen's interview. Mr. Meighen states that he made no proposition to Mr. Price with regard to what might or ought to be done beyond the request that the Government should come to a speedy decision one way or the other as to what course it should follow. Mr. Price says that he gave no intimations to Mr. Meighen as to what course would be followed.

Mr. Gundy had purchased the original bond issue and was still largely interested. He was one of the representative Committee of bondholders that had carried on the negotiations with Mr. Henry for several months. He applied to Mr. Meighen to obtain the interview with Mr. Price but, according to Mr. Meighen's evidence, just alluded to, he did not inform Mr. Meighen of the previous negotiations. His object in getting Mr. Meighen to approach Mr. Price, as acting head of the Government, was obviously to get a favorable result for the bondholders from these negotiations. Mr. Meighen, being, he says, unaware of any negotiations, deposed that he made no request or proposition to Mr. Price on behalf of the bondholders beyond asking for a speedy decision.

The bondholders on the first rumour of default would look to the contract with the Hydro Commission as their only security for payment of the bond-interest and were naturally interested in knowing what the Commission would do in connection with that contract.

Information, therefore, that Mr. Meighen as a Commissioner might have of the difficulties of the Companies concerned and of the fact of pending negotiations with the Government that might affect the carrying out, modification or cancellation of this contract would place him in a better position as a bondholder than that occupied by other bondholders. His testimony, however, as stated, is that he had no actual knowledge, until the announcement made by Mr. Henry in the press on June 25th, 1932, of the fact that negotiations were going on. The interview with Mr. Price on 22nd June, 1932, he says, did not disclose to him knowledge of that fact.

He states that he made no purchases or sales of these bonds for himself or his companies from 29th May, 1932, until the publication of Mr. Henry's offer on the 25th day of July, 1932, except the \$5,000. purchased by a clerk without his knowledge and contrary to his orders. From the latter date he considered himself as free as others to purchase or sell these bonds in view of the terms of Mr. Henry's published offer and proceeded at once to deal in these bonds on behalf of his Companies.



He bought for example:

for Fourth Canadian General Investment Trusts Limited on 29th July \$10,000 at 64.

for Third Canadian G. I. Trusts Ltd. on 29th July \$5,000 at  $63\frac{1}{2}$

for Third Canadian G. I. Trusts Ltd. on 29th July \$10,000 at 64

for Fourth Canadian G. I. Trusts Ltd. on 2nd Aug. \$10,000 at  $62\frac{1}{2}$

for Fourth Canadian G. I. Trusts Ltd. on 10th Aug. \$8,500 at  $65\frac{3}{8}$

for Fourth Canadian G. I. Trusts Ltd. on 11th Aug. \$7,000 at  $65\frac{1}{2}$

for Fourth Canadian G. I. Trusts Ltd. on 11th Aug. \$14,000 at  $65\frac{1}{4}$

The total list is lengthy.

Mr. Meighen's purchases from 28th July on behalf of his Companies were turned in to the Hydro Commission at a profit. The Commission had offered to purchase these bonds at a price yielding 71, as figured by Mr. Henry. Mr. Meighen found that he could buy the bonds for his Companies, for some time at least, at a price less than the offer and proceeded to buy them and turn them over to the Commission at a substantial profit to his Companies as indicated by the above prices.

What was his duty towards the Commission of which he was a member and towards the Companies of which he was manager or director? The transactions were of course profitable to his Companies who had therefore no ground for complaint. On finding however that the bonds could be acquired at a price lower than the offer, what was his duty towards the Commission of which he was a member, and towards the Government for which he claims the Commission was acting as a mere agent?

In Mr. Henry's published statement, the following appears: "Under these circumstances Ontario Power Service Corporation, Limited, requested the Government to consider some plan for assisting the Company or for taking over and completing the work on behalf of the Government, and for some time the matter has been given serious thought by the Government and the Hydro Electric Power Commission of Ontario . . . . The Government and the Commission consider that it is most important that the development should be completed . . . . And the Government with the approval of the Commission has finally decided, as the most convenient way of getting title to the property, to offer to the bondholders \$18,000,000 of Hydro Commission Government guaranteed twenty year debentures."

Mr. Henry now says that this statement was not accurate as to these particulars and that in fact, the Commission had not made any request to the Government; that the Commission had not considered the matter and had not approved of the decision of the Government and, that he should have referred in this statement, not to the Commission, but to Mr. Cooke as a member of the Government and to the Engineers of the Commission.

Mr. Meighen says he did not correct these errors in Mr. Henry's published statement, as they did not impress him to be of importance.

On the 28th July, Mr. Henry sent his letter of that date to the Chairman of the Commission. Mr. Meighen was present at all the meetings of the Hydro Commission which dealt with the subject matter of this letter.

A meeting of the Commission was held on the 2nd of August, when a formal offer for the purchase of the bonds was prepared and a resolution passed that such purchase be made and advertised, and that the Secretary be instructed to apply for an Order-in-Council authorizing the Commission to acquire the bonds. Next came the resolution of the 4th August, recommending that the Commission be authorized and empowered under the provisions of the Power Commission Act, to purchase the bonds as already set out. On the 7th October, 1932, the resolution for the purchase of all the bonds deposited up to that date was adopted. This was done before the passing of the Order-in-Council of 16th August authorizing the purchase. The evidence is that this resolution was passed on a verbal request from the Government.

The purchase of the bonds by the exchange mentioned was carried out, as stated, under Section 20 (2) (gg) of the Power Commission Act which provides as follows: "That the Lieutenant-Governor-in-Council upon the recommendation of the Commission, may authorize the Commission to acquire from time to time by purchase in the open market, or otherwise, shares or stock in, or the securities of, any incorporated company carrying on the business of developing, distributing or transmitting electrical power or energy and for the purposes of this Act the acquisition of such shares, or stock, or securities shall be an investment in works."

Mr. Meighen says: The Act does not refer at all to anything to be done by the Cabinet on their own responsibility as a Government but refers entirely to and has in contemplation the conduct of Hydro, as trustee for the Municipalities, who are the legal owners. The Act is not, he says, for a case of Government action at all.

Would anyone, he asks, "suggest that the Government of Ontario cannot make a purchase on its own responsibility with its own funds on its own credit unless the Hydro Commission recommends it?" He argues that in carrying out this purchase or exchange the Commission acted at the request of the Government as the agent of the Government and as such had no responsibility or discretion in the matter. If this be so, the powers of the Hydro Commission are divided into two classes, one to be exercised properly by the Commission on its own authority subject to the restriction provided in the Act, and the other to be exercised actually by the Government at its discretion and on its responsibility, but acting pro forma through the Commission as a piece of mechanism to be made use of as the Government may see fit. The transaction in question, Mr. Meighen argues is therefore outside the real powers of the Commission as contemplated by the statute and is not to be regarded as its own act, but as a transaction made by the Government, which the Commission was in duty bound to adopt at the request of the Government, by the exercise of statutory powers of the Commission, without discretion or responsibility on its part as a mere matter of form.

No such divided power can be read into the Statute.

If the argument is sound, the Government and the Commission were making use of the Statute for a purpose not within its contemplation in order to avoid resort to the Legislature.

There were no Municipalities interested in the purchase of the 100,000 H. P. Was that contract also entered into by the Commission purely as agent



for the Government as a matter of form without right to consider the merits and without responsibility?

Mr. Meighen's question, just referred to, can be answered by pointing out that the Government of Ontario cannot make a purchase, such as the one in question on its own responsibility with its own funds on its own credit without the sanction of the Legislature which was not obtained. Lacking such sanction, it had no power in itself to expend the money required for the purchase of these bonds. If the Commission, as he says, acted merely as agent, then the agent's authority could not be greater than the authority of the principal which itself had none.

The Hydro Commission is a body corporate endowed with statutory powers *St. Catherines v. Hydro* (1927) 61 O. L. R. 465. These cannot be exercised as agent for the Government but which it must itself exercise as principal. He says "Hydro is not owned by the Government and people of Ontario but by the 700 Municipalities who are the legal owners." This, however, is not correct. What title, for instance, has any Municipality to Chippawa and other developments or to the contracts of the Hydro Commission for power purchased? Many Municipalities have acquired their own plants for the production or distribution of electric energy with or without the aid of the Commission. The Commission in certain cases, sells electricity to individuals and companies for industrial purposes without the intervention of any Municipality, both in Old Ontario and New Ontario.

The Government may grant or refuse authority to the Commission to enter into a transaction such as the one in question, but beyond that, the power of the Commission to enter into and to carry out this particular transaction is derived from the section quoted of the Power Commission Act itself, and not from the Government or cabinet, and responsibility for the exercise of that power so conferred must in every case rest on the Commission.

The Commission carried out the proposed transaction in pursuance of and by virtue of the power and authority vested in it by the Statute.

The Government might request the Commission to act, and might consider that the circumstances afforded convincing reasons for acceding to the request, but the responsibility and the discretion to be exercised must, as stated, rest where the Statute places it, that is, with the Commission itself.

Mr. Meighen says that the Commission never took the merits of the purchase into consideration but recommended it as a pro forma act. There were the gravest of reasons for investigating the merits of the proposed transaction.

The Commission of which Mr. Meighen was a member, recommended that an order-in-council be passed authorizing the purchase by the Commission of \$3,000 face value of the bonds in question held by him personally and of some \$300,000 face value of these bonds which were held by companies which he represented. The Commission made the purchase accordingly. This was undoubtedly the situation from a legal point of view.

It is argued, however, that substantially it was a purchase by the Commission for the Government by reason of the indemnity given by the Government to the Commission against loss and that in view of the circumstances it made no real difference in money value, that Mr. Meighen as a Commissioner took part in the purchase.



The indemnity relied on is ineffectual because it creates a liability on the Province that cannot be created by order-in-council.

Apart from certain prerogative matters, an Order-in-Council is not effective unless passed under an Act expressly or by implication authorizing what the Order-in-Council prescribed. Hence, no Order-in-Council passed by the Governor General in Council, or by the Lieutenant Governor in Council in this Province, has any legal effect unless authorized by some Statute, or falls within the category of prerogative Orders-in-Council. *Price Bros. vs. Board of Commerce* (1920) 60 S.C.R. 265—where an Order-in-Council passed by the Governor General of Canada in Council was held to be *ultra vires*.

As a Commissioner, Mr. Meighen had to share in a responsibility and exercise a discretion cast upon the Commission by the statute. He was, therefore, a party interested in making and carrying out the transaction. It may be said that, in view of the circumstances, the responsibility and discretion involved was of little consequence as the transaction would have been carried out and the bonds held by Mr. Meighen and the Companies he represented would have brought the same price whether he took part as Commissioner or not, it being a practical certainty that the other two commissioners would have carried out the transaction in just the same way without Mr. Meighen's participation. That, however, does not necessarily follow, though it may be probable.

The purchase was, in fact and in point of law, made, as already pointed out, by the Commission of which Mr. Meighen was a member, and the question of the amount involved or of whether any money value at all was involved affects only the degree of impropriety arising from the transaction.

It was open to Mr. Meighen to have said to the other two Commissioners, the Government and the public that he was interested personally and on behalf of his companies in bonds that the Government was requesting the Commission to purchase and that therefore he could take no part in the recommendation or in the purchase.

He failed to do this and thus was placed in the position as a Commissioner of being buyer of these bonds and of being a seller of them in his individual capacity and as a director or manager of the companies in which he was interested.

The findings reached by your Commissioners, based on the voluminous evidence and exhibits, are expressed in the foregoing pages.

Having regard to the fact that the property at the Abitibi Canyon has all been acquired by the Hydro Commission, they find it unnecessary to add any recommendation to this their report.

All of which is respectfully submitted.

DATED at Toronto this 20th day of October, 1934.

(Signed)

F. R. LATCHFORD

R. SMITH

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\*The Statements "A", "B", "C", "D" and "E", appertaining to the local municipal electric utilities—and given in Section X of the Report—are detailed individually for Acton, but in the case of other municipalities are grouped under the sub-heading of "Municipal Accounts" with reference to Statements "A" and "B", and under the sub-heading "Statements" with reference to Statements "C", "D" and "E".

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